

## Literature Cited

### Chapter 1

- Autin WJ, Burns SF, Miller BJ, Saucier RT, and Snead JI. 1991. Quaternary geology of the Lower Mississippi Valley. In: Morrison RB, editor. Quaternary nonglacial geology: coterminous United States. Boulder, CO: Geological Society of America. v. K-2. p 547-82.
- Boyd R, Suter JR, and Penland S. 1989. Relation of sequence stratigraphy to modern sedimentary environments. *Geology* 17:926-9.
- Byrne JV, LeRoy DO, and Riley, CM. 1959. The chenier plain and its stratigraphy, Southwestern Louisiana. *Gulf Coast Association of Geological Societies Transactions* 9:261-70.
- Coleman JM and Gagliano SM. 1966. Cyclic sedimentation in Mississippi River delta plain. *Gulf Coast Association of Geological Societies Transactions* 14: 67-80.
- Coleman JM, Prior DB, and Lindsay JF. 1983. Deltaic influences on shelf edge instability processes. In: Stanley DJ, Moore GT, editors. *The shelfbreak: critical interface on continental margins*. Tulsa, OK: Society of Economic Paleontologists and Mineralogists. p 121-37.
- Coleman JM, Roberts HH, and Bryant WR. 1991. Late Quaternary sedimentation. In: Salvador A, editor. *The gulf of Mexico basin*. Boulder, CO: Geological Society of America. v J. p 325-52.
- Coleman JM, Roberts HH, and Stone GW. 1998. Mississippi River delta: an overview. *Journal of Coastal Research* 14(3):698-716.
- Curry JR. 1960. Sediments and history of Holocene transgression, continental shelf, northwest Gulf of Mexico. In: Shepard FP, Phleger FB, Van Andel TH, editors. *Recent Sediments, Northwestern Gulf of Mexico*. Tulsa, OK: American Association of Petroleum Geologists. p 221-36.
- Fairbanks RG. 1989. A 17,000-year glacio-eustatic sea level record: influence of glacial melting rates on the Younger Dryas event and deep-ocean circulation. *Nature* 342:637-42.
- Fisk HN. 1944. *Geologic investigations of the alluvial valley of the lower Mississippi River*. Vicksburg, Mississippi: U. S. Army Corp of Engineers, Mississippi River Commission. 78 p.
- Fisk HN and McFarlan E, Jr. 1955. Late Quaternary deltaic deposits of the Mississippi River. *Geological Society of America Special Paper* 62:279-302.
- Fisk HN and McClelland B. 1959. Geology of continental shelf off Louisiana: its influence on offshore foundation design. *Geological Society of America Bulletin* 70:1360-94.
- Frazier DE. 1967. Recent deltaic deposits of the Mississippi River: their development and chronology. *Gulf Coast Association of Geological Societies Transactions* 27:287-315.
- Frazier DE. 1974. Depositional episodes: Their relationship to the Quaternary stratigraphic framework in the northwestern portion of the Gulf basin: Austin, Texas Bureau of Economic Geology Circular 74-1. 28 p.

- Galloway WE, Bebout DG, Fisher WL, Dunlap JB, Cabrera-Castro R, Lugo-Rivera JE, Scott TM. 1991. In: Salvador A, editor. The Gulf of Mexico Basin. Boulder, CO: Geological Society of America. v J. p 245-324.
- Gould HR and McFarlan E, Jr. 1959. Geologic history of the chenier plain, south-western Louisiana. Gulf Coast Association of Geological Societies Transactions 9:261-70.
- Kindinger JL. 1988. Seismic stratigraphy of the Mississippi-Alabama shelf and upper continental slope. Marine Geology 83:79-94.
- Kolb CR and Van Lopik JR. 1966. Depositional environments of the Mississippi River deltaic plain, southeastern Louisiana. In: Shirley ML, Ragsdale JA, editors. Deltas. Houston, TX: Texas Geological Society. p 17-62.
- Kulp MA, Howell P, Adiau S, Penland S, Kindinger JL, and Williams SJ. 2002. Latest Quaternary stratigraphic framework of the Mississippi River delta region. Gulf Coast Association of Geological Societies Transactions 52:573-82.
- Mann JC and Thomas WA. 1968. The ancient Mississippi River. Gulf Coast Association of Geological Societies Transactions 18:187-204.
- McFarlan E, Jr. 1961. Radiocarbon dating of late Quaternary deposits, south Louisiana. Geological Society of America Bulletin 72:129-57.
- McFarlan E, Jr and LeRoy DO. 1988. Subsurface geology of the late Tertiary and Quaternary deposits, coastal Louisiana and the adjacent continental shelf. Gulf Coast Association of Geological Societies Transactions 38:421-33.
- McIntire WG. 1954. Correlation of prehistoric settlements and delta development. Baton Rouge: Louisiana State University Coastal Studies Institute. Technical Report 5. 65 p.
- Penland S, Boyd R and Suter JR. 1988. Transgressive depositional systems of the Mississippi delta plain: a model for barrier shoreline and shelf sand development. Journal of Sedimentary Petrology 58(6):932-49.
- Roberts HH. 1997. Dynamic change of the Holocene Mississippi River delta plain: the delta cycle. Journal of Coastal Research 13(3): 605-27.
- Salvador A. 1987. Late Triassic-Jurassic paleogeography and origin of gulf of Mexico basin. American Association of Petroleum Geologists Bulletin 71:419-51.
- Salvador A. 1991. Origin and development of the Gulf of Mexico basin. In: Salvador A, editor. The Gulf of Mexico Basin. Boulder, CO: Geological Society of America. v. J. p 389-444.
- Saucier RT. 1994. Geomorphology and Quaternary geologic history of the lower Mississippi valley. Vicksburg, MS: United States Army Engineer Waterways Experiment Station. 364 p.
- Scruton PC. 1960. Delta building and the deltaic sequence. In: Shepard FP, Phleger FB, Van Andel TH, editors. Recent sediments, northwest Gulf of Mexico. Tulsa, OK: American Association of Petroleum Geologists. p 82-102.
- Stanley DJ and Warne AG. 1994. Worldwide initiation of Holocene marine deltas by deceleration of sea-level rise. Science 265:228-31.
- Suter JR and Berryhill HL, Jr. 1985. Late Quaternary shelf-margin deltas, northwest Gulf of Mexico. American Association of Petroleum Geologists Bulletin 69:77-91.

- Suter JR, Berryhill HL, Jr, Penland S. 1987. Late Quaternary sea-level fluctuations and depositional sequences, southwest Louisiana continental shelf. In: Nummedal D, Pilkey OH, Howard JD, editors. Sea-level fluctuation and coastal evolution. Tulsa, OK: Society of Economic Paleontologists and Mineralogists. v 41. p 199- 219.
- Sydow J and Roberts HH. 1996. Stratigraphic framework of a Late Pleistocene shelf-edge delta, northeast Gulf of Mexico. American Association of Petroleum Geologists 78(8):1276-1312.
- Tornqvist TE, Kidder TR, Autin WJ, van der Borg K, de Jong AFM, Klerks CJW, Snijers EMA, Storms JEA, van Dam Renkel L, and Wiemann MC. 1996. A revised chronology for Mississippi River subdeltas. Science 273:1693-96.
-

## Chapter 2

- Barras J, Bourgeois PE, Handley LR. 1994. Land loss in coastal Louisiana 1956- 90: National Biological Survey, National Wetlands Research Center. 4 p
- Ellis JR. 1998. Computer simulated net longshore sediment transport and inferences from beach sediment granulometry: Chandeleur Island, Louisiana [MS]. Baton Rouge, LA: Louisiana State University. 135 p
- Ellis JR and Stone, GW. 2001. Computer Simulated net Longshore Sediment Transport and Inferences from Beach sediment Granulometry: Chandeleur Island, Louisiana, U.S.A. Marine Geology (in review)
- FitzGerald DM, Kulp M, Penland P, Flocks J, Kindinger J. 2004. Morphologic and stratigraphic evolution of ebb-tidal deltas along a subsiding coast: Barataria Bay, Mississippi River Delta, Sedimentology in press
- Jurkowski G, Ni J and Brown L. 1984. Modern uparching of the Gulf coastal plain: Journal of Geophysical Research 89(B7):6247-6255
- Kolb CR and Van Lopik JR. 1958. Geology of the Mississippi River deltaic plain, southeastern Louisiana: Vicksburg, Mississippi. U. S. Army Corp of Engineers
- Kulp MA, FitzGerald D, and Penland S. Progradational through retrogradational evolution of the Lafourche headland, Mississippi River delta plain: insight to the framework and genesis of stacked deltaic headlands. Coastal Sediments '03 Clearwater, Florida
- Levin DR. 1993. Tidal inlet evolution in the Mississippi River delta plain. Journal of Coastal Research 9(2):462-480
- List JH, Jaffe BE, and Sallenger AH. 1991. Large Scale Coastal Evolution of Louisiana's barrier islands. Coastal Sediments '91. Seattle, Washington. pp 1532-1546
- List JH, Jaffe BE, Sallenger AH, Williams SJ, McBride RA, Penland S. 1994 Louisiana barrier island erosion study, atlas of sea floor changes from 1878 to 1989. 119 p
- McBride RA, Penland S, Highland M, Williams SJ, Westphall K, Jaffee BE, Sallenger AH. 1992. Chapter 4, Analysis of Barrier Shoreline Change in Louisiana from 1878 to 1989. [In: Williams SJ, Penland S, Sallenger AH.] Louisiana barrier Island Study, Atlas of Shoreline Changes in Louisiana from 1853 to 1989: U.S. Geological Survey
- Morton RA and Purcell NA. 2001. Wetland subsidence, fault reactivation, and hydrocarbon production in the U.S. Gulf Coast Region
- Mossa J and Roberts HH. 1990. Synergism of riverine and winter storm-related sediment transport processes in Louisiana's coastal wetlands. Transactions, Gulf Coast Associations of Geological Societies 60:635-642
- Murray SP. 1976. Currents and circulation in the coastal waters of Louisiana, Baton Rouge, LA.: Coastal Studies Institute, Center for Wetland Resources, Louisiana State University. Report nr Technical Report 210
- Penland S and Ramsey KE. 1990. Relative sea level rise in Louisiana and the Gulf of Mexico: 1908-1988. Journal of Coastal Research 6(2): 323-342

- Penland S, Ramsey KE, McBride RA, Moslow TF and Westphal KA. 1989. Relative sea level rise and subsidence in Louisiana and the Gulf of Mexico. Baton Rouge, LA: Louisiana Geological Survey. 65 p
- Penland S, Suter JR and Boyd R. 1988. The transgressive depositional systems of the Mississippi River delta plain: a model for barrier shoreline and shelf sand development. *Journal of Sedimentary Petrology* 58(6):932-949
- Roberts HH, Beaubouef RT, Walker ND, Stone GW, Bentley S, Sheremet A and Van Heerden I. 2003. Sand-rich Bay Head Deltas in Atchafalaya Bay (Louisiana): Winnowing by cold front forcing; Clearwater, FL. p 15
- Roberts HH, Huh OK, Hsu SA, Rouse and Rickman D. 1987. Impact of Coldfront Passages on Geomorphic Evolution and Sediment Dynamics of the Complex Louisiana Coast; New Orleans, Louisiana. pp 1950-1963
- Sheremet A and Stone G. 2003. Observations of nearshore wave dissipation over muddy sea beds. *Journal of Geophysical Research* (in press) Stone GW and Zhang X. 2001. A longshore sediment transport model for Isles Dernieres. Report prepared for the Environmental Protection Agency. 26 p
- Stone GW and Zhang X. 2001. A longshore sediment transport model for the Timbalier Islands, Louisiana. Baton Rouge, Louisiana: Coastal Studies Institute Louisiana State University. 26 p
- Stone GW, Grymes MJ, Dingler RJ and Pepper DA. 1997. Overview and significance of hurricanes on the Louisiana Coast. *Journal of Coastal Research* 13(3):656-669
- Underwood S, Chen R, Stone GW, Zhang X, Byrnes M and McBride RA. 1999. Beach response to a segmented breakwater system; Southwest Louisiana, USA. Kraus N, McDougal W, editors. 2042-2056 pp
- Williams SJ, Penland S, and Sallenger AH, Jr. 1992. Louisiana barrier island erosion study - atlas of barrier shoreline changes in Louisiana from 1853 to 1989. U.S Geological Survey Miscellaneous Investigations Series I-2150-A. 103 p.
-

### Chapter 3

- Adams R, Banas R, Baumann R, Blackmon J and McIntire W. 1978. Shoreline erosion in coastal Louisiana: Inventory and assessment. Baton Rouge, Louisiana: Louisiana Department of Natural Resources. 103 p
- American Society of Civil Engineers. 1994. Glossary of the mapping sciences. Bethesda, MD. 581 p
- Anders FJ and Byrnes MR. 1991. Accuracy of shoreline change rates as determined from maps and aerial photographs. *Shore and Beach* 59: 17-26
- Bultman BE. 2003. The final days of Isle Dernieres. *Louisiana Cultural Vistas*. pp. 76- 95
- Byrnes MR, McBride RA, Tao Q, and Duvic L. 1995. Historical shoreline dynamics along the Chenier Plain of southwestern Louisiana. *Gulf Coast Association of Geological Societies* 45: 113-122
- Byrnes MR, McBride RA, and Hiland MW. 1991. Accuracy standards and development of a national shoreline change database. *Coastal Sediments '91* 1: 1027-42
- Coleman JM. 1988. Dynamic changes and processes in the Mississippi River delta. *GSA Bulletin* 100: 999-1015
- CWPPRA Adaptive Management: Assessment of five barrier island restoration projects in Louisiana. Louisiana Department of Natural Resources. 64 p
- Davis DW. 1992. A pictorial and historical review of Louisiana's barrier islands. In: Williams SJ, Penland S, and Sallenger AH. Jr. editors. *Atlas of Shoreline Changes in Louisiana*. US Geological Survey, Miscellaneous 1-2150-A, 103 p
- Davis DW. 1990. Living on the edge: Louisiana's marsh estuary and barrier island population. *Gulf Coast Association of Geological Societies Transactions* 42: 147- 59
- Dement L. 1977. Two new methods for erosion protection in Louisiana. *Shore and Beach* 45: 31-38
- Fisk HN. 1944. Geological Investigation of the alluvial valley of the Lower Mississippi River, U.S. Army Corps of Engineers, Vicksburg, Mississippi, 69 p
- Frazier DE. 1967. Recent deltaic deposits of the Mississippi River: their development and chronology. *Gulf Coast Association of Geological Societies Transactions* 27:287- 315
- Howe HV, Russell RJ, McGuirt BC, and Craft BC. 1935. Report on the geology of Cameron and Vermillion parishes. Louisiana Geological Survey, Geological Bulletin No. 6, 242 p
- Hoyt JH. 1969. Chenier versus barrier; Genetic and stratigraphic distinction. *American Association of Petroleum Geologists Bulletin* 53: 299-306
- Koch J and Penland S. 2001. The geomorphological impact of hurricane Georges on Chandeleur Islands, Louisiana. *Gulf Coast Association of Geological Societies Louisiana*
- Kolb CR and Van Lopik JR. 1958. Geology of the Mississippi River deltaic plain, Southeastern Louisiana. US Army Corps of Engineers Waterways and Experiment Station, Technical Report nr 3-483, 71 p

- List HH, Jaffe BE, Sallenger AH, Jr., Williams SJ, McBride RA, and Penland S. 1994. Louisiana barrier island erosion study: Atlas of seafloor changes from 1878 to 1989. US Geological Survey, 81 p
- Louisiana Department of Natural Resources. 1998. Barrier island plan, contract no 2509-98-02. T. Baker Smith and Son, Inc. 5 Appendices
- McBride RA, and Byrnes MR. 1997. Resigned variations in shore response along barrier island systems of the Mississippi River delta: historical change and future prediction. *Journal of Coastal Research* 13: 628-655
- McBride RA, Penland S, Hiland, Mattheson W, Williams, Westphal KA, Jaffe BE, and Sallenger AH, Jr. 1992. Analysis of barrier shoreline change in Louisiana from 1853 to 1989. In: Williams SJ, Penland S, and Sallenger AH, Jr. , editors  
Atlas of Shoreline Changes in Louisiana. US Geological Survey, Miscellaneous 1- 2150-A, 103 p
- McBride RA, Hiland MW, Penland S, Williams SJ, Byrnes MR, Westphal KA, Jaffe B, and Sallenger AH, Jr. 1991. Mapping barrier island changes in Louisiana: techniques, database, and results. *Coastal Sediments '91*, pp. 1011-26
- Mendelssohn IA, Penland S, and Patrick WH, Jr., 1986. Barrier islands and beaches of the Louisiana delta plain. Louisiana Department of Natural Resources. 356 p
- Morgan J. 1955. A Geographical and Geological Study of the Louisiana Coast with Emphasis Upon Establishment of the Historic Shoreline. Baton Rouge, Louisiana: The Coastal Studies Institute of Louisiana State University. 84 p
- Morgan J and Larrimore P. 1957. Changes in the Louisiana Shoreline. *Transactions-Gulf Coast Association of Geological Societies* 7:303-310
- Morgan JP, Nichols LG, and Wright M. 1958. Morphological effects of hurricane Audrey on the Louisiana coast. Louisiana State University, Coastal Studies Institute Technical Report nr 10, 24 p
- Morgan JP and Morgan DJ. 1983. Accelerating retreat rates along Louisiana's coast: Baton Rouge, Louisiana State University, Louisiana's Sea Grant College Program, 41 p
- Morton RA, 1975. Shoreline changes between Sabine Pass and Bolivar roads. Bureau of Economic Geology Circular 75-6, University of Texas. 43 p
- Mossa J, Penland S, and Moslow TF. 1985. Coastal structures in Louisiana's Barataria bight. Louisiana Geological Survey. Coastal Geology Technical Report nr 1. 28 p
- Nichols SL, Boyd R, and Penland S. 1996. Sequence stratigraphy of a coastal-plain incised valley estuary: Lake Calcasieu, Louisiana. *Journal of Sedimentary Research* 66: 847-57
- Nichols SL, Boyd R, and Penland S. 1992. Hydrology of a wave-dominated estuary: Lake Calcasieu, Southwest Louisiana. *Gulf Coast Association of Geological Societies Transactions* 42: 627-36
- Nichols SL, Boyd R, and Penland S. 1994. Stratigraphic response of wave-dominated estuaries to different relative sea-level and sediment supply. *Histories: quaternary case studies*

- from Nova Scotia, Louisiana, and eastern Australia. In: Dalrymple RW, Boyd R, and Zaitlin BA, editors. 1994. Incised-valley systems: origin and sedimentary sequences. SEPM Special Publication 51: 265-83
- Penland S and Boyd R. 1981. Shoreline changes on the Louisiana barrier coast. *Oceans '81*, IEEE New York, pp. 209-29
- Penland S, Boyd R, Nummendal D, and Roberts HH. 1981. Gulf Coast Association of Geological Societies Transactions. 31: 471-465
- Penland S, Suter JR, and Boyd R. 1985. Barrier island area along abandoned Mississippi River deltas. *Marine Geology* 63: 197-233
- Penland S, Ritchie W, Boyd R, Gerdes RG, and Suter JR. 1986. The Bayou Lafourche delta, Mississippi River delta plain. Geological Society of America. Decade of North American Geology Field Guide (Southeastern section) pp. 447-452
- Penland S, Suter JR, and Boyd R. 1988. The transgressive depositional systems of the Mississippi River delta plain: a model for barrier shoreline and shelf sand development. *Journal of Sedimentary Petrology*. 58: 932-949
- Penland S, Ramsey KE, McBride RA, Moslow TF, and Westphal KA. 1989. Relative sea level rise and subsidence in Louisiana and the Gulf of Mexico. Coastal Geology Technical Report no 3, Louisiana Geological Survey, 65 p
- Penland S and Suter JR. 1989. Geomorphology of the Mississippi River chenier plain *Marine Geology* 90: 231-58
- Penland S and Ramsey KE. 1990. Relative sea level in Louisiana and Gulf of Mexico: 1908-1988. *Journal of Coastal Research* 6: 323-42
- Penland S, Roberts HH, Williams SJ, Sallenger AH, Jr, Cahoon DR, Davis DW, and Groat CG. 1990a. Coastal land loss in Louisiana. *Gulf Coast Association of Geological Societies* 40: 685-99
- Penland S, Suter JR, Ramsey KE, McBride RA, Williams SJ, and Groat CG. 1990b  
Offshore sand resource for coastal erosion in Louisiana. *Gulf Coast Association of Geological Societies* 40: 721-31
- Penland S, Williams SJ, Davis DW, Sallenger AH, Jr., and Groat CG. 1992. Barrier island erosion and wetland loss in Louisiana. In: Williams SJ, Penland S, and Sallenger AH, Jr. editors. *Atlas of Shoreline Changes in Louisiana*. US Geological Survey, Miscellaneous 1-2150-A. 103 p
- Penland S. 1996 (Project Coordinator). Historical shoreline change in the North Gulf of Mexico. US Environmental Protection Agency, Gulf of Mexico Program, 1 map
- Penland S, Wayne LD, Britsch LD, and Williams SJ. 2000a. The geomorphology of coastal land loss in the Mississippi River delta plain. US Geological Survey Open-file report I-0417 (1 map)



- Penland S, Wayne LD, Britsch LD, and Williams SJ. 2000b. The processes of coastal land loss in the Mississippi River delta plain. US Geological Survey. Open-File Report I-0418 (1 map)
- Penland S, Beall A, and Kindinger JK. 2002. Environmental atlas of the Lake Pontchartrain basin. US Geological Survey, Open-File Report nr 02-206. 185 p
- Penland S, Connor PF, and Cretini F. 2003b. CWPPRA Adaptive Management: Assessment of five barrier island restoration projects. Coastal Sediments '03 12 p
- Peyronnin CA, Jr. 1962. Erosion of the Isles Dernieres and Timbalier Islands. Journal of Waterways and Harbors Division. American Society of Engineers 88: 57-69
- Ritchie W, Westphal KA, McBride RA, and Penland S. 1989. Coastal sand dunes of Louisiana-the Isles Dernieres. Louisiana Geological Survey. Coastal Geology Technical Report. 60 pp
- Ritchie W, Westphal KA, McBride RA, and Penland S. 1990. Coastal sand dunes of Louisiana-the Plaquemines shoreline. Louisiana Geological Survey. Coastal Geology Technical Report. 90 pp
- Ritchie W, Westphal KA, McBride RA, and Penland S. 1992. Coastal sand dunes of Louisiana-the Chandeleur Islands barrier system. Louisiana Geological Survey Coastal Geology Technical Report nr 7. 174 pp
- Ritchie W, Westphal KA, McBride RA, and Penland S. 1995. Coastal sand dune of Louisiana-the Bayou Lafourche barrier shoreline. Louisiana Geological Survey Coastal Geology Technical Report nr 9. 200 pp
- Roberts HH and Huh OK. 1995. The eastern Chenier plain: An update on downdrift progradation associated with the building of a new Holocene delta lobe in the Mississippi delta complex. Gulf Coast Association of Geological Societies Transactions 45: 644-46
- Roberts HH. 1998. Delta Switching: Early Responses to the Atchafalaya River diversion Journal of Coastal Research. v. 882-899
- Russell RJ, Howe HV, McGuirt JH, Dohm CF, Hadley W, Kniffer FB, and Brown CA 1936. Lower Mississippi River delta: Reports on the geology of Plaquemines and St. Bernard Parishes. Louisiana Geological Survey Geological Bulletin No.8 , 454 p
- Suter JR, Penland S, Williams SJ, and Kindinger JL. 1988. Transgressive evolution of the Chandeleur Islands, Louisiana. Gulf Coast Association of Geological Societies Transactions. 30: 315-22
- US Army Corps of Engineers. 1936. Beach erosion at Grande Isle, Louisiana. New Orleans District, 32 p
- US Army Corps of Engineers. 1961. Calcasieu River and Pass, Louisiana. Design Memorandum No. 2. Jetty Rehabilitation, New Orleans District, 8 p
- US Army Corps of Engineers. 1971a. Survey of Holly Beach and vicinity, Louisiana Series number 95. New Orleans District, 19 p

- US Army Corps of Engineers. 1971b. National shoreline study: Inventory report-lower Mississippi region-Louisiana. New Orleans District, 57 p
- US Army Corps of Engineers. 1975a. Louisiana coastal preliminary evaluation studies-Caminada Pass to Belle Pass beach erosion. New Orleans District, 32 p
- US Army Corps of Engineers. 1975b. Louisiana coastal area study-barrier islands from Racoon Point to Belle Pass. New Orleans District, 44 p
- US Army Corps of Engineers. 1978. Grande Isle and vicinity: Phase I general design memorandum. New Orleans District, 23 p
- US Army Corps of Engineers. 1980. Grande Isle and vicinity: Phase II general design memorandum. New Orleans District, 29 p
- Van Beek J and Meyer-Arendt K. Baton Rouge, La. 1982. Louisiana's eroding coastline: Recommendations for protection. Coastal Environments, Inc. 49 pp
- Wells JT and Kemp GP. 1981. Atchafalaya mud streams and recent mudflat progradation: Louisiana chenier plain. Gulf Coast Association of Geological Transactions 31: 409-16
- Westphal KA and Penland S. 1992. Aerial photographic mosaics of Louisiana's barrier islands. In: Williams SJ, Penland S, and Sallenger AH, Jr. (editors), 1992. Atlas of Shoreline Changes in Louisiana. US Geological Survey, Miscellaneous 1-2150- A, 103 pp
- Williams SJ, Penland S, and Sallenger AH, Jr. editors. 1992. Atlas of Shoreline Changes in Louisiana. US Geological Survey, Miscellaneous 1-2150-A, 103 pp
-

## Chapter 4

- Chaney P. 1988. Extratropical storms of the Gulf of Mexico and their effects along the northern shores of a barrier island: West Ship Island, Mississippi: Unpublished Ph.D. dissertation [Dissertation]. Baton Rouge, Louisiana: Louisiana State University. 159 pp.
- Huh O, Roberts H, Rouse L and Rickman D. 1991. Fine grain sediment transport and deposition in the Atchafalaya and Chenier Plain sedimentary systems; 1991; Seattle, Washington. pp. 817-830
- Huh O, Walker N and Moeller C. 2001. Sedimentation along the eastern Cheniere Plain Coast; down drift impact of a delta complex shift. *Journal of Coastal Research* 17(7):72-81
- Kemp G. 1986. Mud deposition at the shoreface: wave and sediment dynamics on the Chenier Plain of Louisiana [Dissertation]. Baton Rouge, Louisiana: Louisiana State University. 146 pp.
- Morgan J. 1963. Louisiana's changing coastlines. Baton Rouge, Louisiana: Coastal Studies Institute. Report nr 16. pp.66-78
- Morgan J and Larimore P. 1957. Changes in Louisiana shoreline. *Transactions Gulf Coast Association of Geological Societies* 7:pp. 66-78
- Morgan J, Van Lopik J and Nichols L. 1953. Occurrence and development of mudflats along the western Louisiana Coast. Baton Rouge, Louisiana: Coastal Studies Institute. Report nr 2. 34 p.
- Muller R and Stone G. 2002. A climatology of tropical storm and hurricane strikes to enhance vulnerability prediction for the southeast US Coast. *Journal of Coastal Research* 17: pp. 949-956
- Penland S, Suter JR, McBride RA, Westphal KA, Sallenger AH, and Williams SJ. 1989
- Morphodynamic signature of the 1985 hurricane on the Northern Gulf of Mexico Coastal Zone '89. pp. 4220-34
- Roberts H, Bentley S, Coleman J, Hunt, Hsu S, Rotondo K, Inoue M, Rouse L, Jr., Sheremet A, Stone G and others. 2002. Geological framework and sedimentology of recent mud deposition on the eastern cheniere plain coast and adjacent inner shelf, western Louisiana. *Transactions Gulf Coast Association of Geological Societies* 52:849-859
- Roberts H, Huh O, Hsu S, Rouse L and Rickman D. 1989. Winter storm impacts on the chenier plain coast of southwestern Louisiana. *Transactions Gulf Coast Association of Geological Societies* 39:512-522
- Sheremet A and Stone G. 2003. Observations of nearshore wave dissipation over muddy sea beds. *Journal of Geophysical Research* (in press)
- Sheremet A and Stone G. 2003. Wave dissipation due to heterogenous sediments on the inner Louisiana shelf. *Book of Abstracts; 2003; Clearwater Beach, Florida.* pp.120-121
- Stone GW, Armbruster C and Dingler JR. 1997. Morphological signature of severe hurricanes; northern Gulf of Mexico coastline. *Abstracts-Annual Meeting- Association of American Geographers 93rd Annual meeting 1997: 256*

- Stone G and McBride R. 1998. Louisiana barrier islands and their importance in wetland protection: forecasting shoreline change and subsequent response of wave climate. *Journal of Coastal Research* 14:900-915
- Stone GW, Wang P, and Armbruster CK. 1999. Unanticipated response to detached segmented breakwaters along Raccoon Island, Louisiana. *Coastal Sediments '99* Long Island, New York. pp. 2057-72
- Stone G, Sheremet A, Zhang X, He Q, Liu B, Strong B. 2003. Landfall of two tropical systems seven days apart along south central Louisiana. *Book of Abstracts Clearwater Beach, Florida*. p 333-332
- Taylor M. 1996. *Geomorphology and sedimentology of the southwest Louisiana chenieres*. Baton Rouge, Louisiana: Louisiana State University. 133 p.
- Van Lopik J and Kemp G. 1981. Recent geology and geomorphic history central coastal Louisiana. Louisiana State University Coastal Studies Institute. Report 7. 88 p.
- Wells J. 1983. Dynamics of coastal fluid muds in low-, moderate-, and high-tide range environments. *Canadian Journal of Fisheries and Aquatic Science* 40:130-132
- Wells J and Kemp G. 1981. Atchafalaya mud stream and recent mudflat progradation: Louisiana chenier plain. 1981. Corpus Christi, Texas. pp. 409-416
-

## Chapter 5

- Ambrose RB, Wool TA, and Martin JL. 1993. The water quality analysis simulation program, WASP5, part A: model documentation. U. S. Environmental Protection Agency Center for Exposure Assessment Modeling, Athens, Ga.
- Ambrose RB, Wool TA, and Martin JL. 1993. The water quality analysis simulation program, WASP5, part B: The WASP5 input dataset, version 5.00. U. S. Environmental Protection Agency Center for Exposure Assessment Modeling, Athens, Ga.
- Ariathurai R. 1978. Modification of model, sediment II H. U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS. Report nr NEAR TR 178.
- Ariathurai R. 1982. Two and three dimensional models for sediment transport. U. S. Army Corps of Engineers Waterways Experiment Station, Resource Management Associates, Lafayette, CA.
- Ariathurai R and Krone RB. 1976. Finite element model of cohesive sediment transport. ASCE Journal of Hydraul. Engr. Div. 102(HY3):323-338.
- Ariathurai R, MacArthur RC and Krone RB. 1977. Mathematical model of estuarine sediment transport. U. S. Army Corps of engineers Waterways Experiment Station, Vicksburg, MS. Report nr Technical Report D-77-12.
- ASCE. 1988. Task committee on turbulence models in hydrodynamic computations, turbulence modeling of surface water flow and transport. Parts I-IV. J. of Hydraul. Engr. Div 114(9):970-1073.
- Baca RG, Waddel WW, Cole CR, Brandstetter A, and Cearlock DB. 1973. EXPLORE-I: a river basin water quality model. Battelle, Pacific Northwest Laboratories, Richland, WA.
- Bailey RG. 1996. Multi-Scale ecosystem analysis. Environmental Monitoring and Assessment 39:21-24.
- Baptista AE, Adams EE and Stolzenbach KD. 1984. Eulerian-Lagrangian analysis of pollutant transport in shallow water. Ralph M. Parsons Laboratory, Aquatic Sciences and Environmental Engineering, Department of Civil Engineering, Massachusetts Institute of Technology, Cambridge, MA. Report nr 296.
- Barkau RL. 1992. UNET: one dimensional unsteady flow through a full network of open channels, user's manual. U. S. Army Corps of Engineers, Hydrologic Engineering Center Report , Davis, CA.
- Bass AS and Turner RE. 1997. Relationships between salt marsh loss and dredged canals in three south Louisiana estuaries. Journal of Coastal Research 13(3):895-903.
- Batelle L. 1999. Preliminary report of modeling efforts in the Gulf of Mexico. New Orleans, LA: Gulf of Mexico Program.
- Bauer RA and Stroud AD. 1978. Enhanced hydronumerical model for near-shore processes. U. S. Environmental Protection Agency , Corvallis, OR. Report nr EPA- 600/3-78-073.
- Baumann RH, Day JW and Miller CA. 1986. Mississippi Deltaic Wetland Survival: sedimentation versus coastal submergence. Science 224:1093-1095.

- Blumberg AF, Di Toro DM, Vassilakis R, Paquin PR, and Fitzpatrick JJ. 1986. A unified hydrodynamic-water quality model; Long Beach, CA. pp. 1309-1316.
- Blumberg AF and Galperin B. 1990. On the summer circulation in New York Bight and contiguous estuarine waters. In: Cheng RT, editor. Coastal and Estuarine Studies. New York: Springer-Verlag. pp. 451-468.
- Blumberg AF and Mellor GL. 1980. A coastal numerical model. In: Sundermann J, Holz K, editors. Mathematical modeling of estuarine physics. New York: Springer- Verlag. p 202-218.
- Blumberg AF and Mellor GL. 1987. A description of a three-dimensional coastal ocean circulation model. In: Heaps N, editor. Three-Dimensional Coastal Ocean Models, Coastal and Estuarine Sciences. Washington, D. C.: AGU. pp. 1-16.
- Blumberg AF and Oey LY. 1985. Modeling circulation and mixing in estuaries and coastal oceans. Advances in Geophysics. New York: Academic. pp. 525-547.
- Bower DE, Sanders CL and Conrads PA. 1993. Retention time simulation for Bushy Park Reservoir near Charleston, South Carolina. U. S. Geological Survey, Columbia, SC. Water Resources Investigations Report 93-4079.
- Brandes RY and Masch FD. 1971. A slowly varying conservative transport model for shallow estuaries. University of Texas, Hydraulic Engineering Laboratory, Austin, TX. Technical Report HYD12-7103.
- Buchak EM and Edinger JE. 1981. User Guide and development document for LAEM2, a longitudinal-vertical, time-varying hydrodynamic estuary model. J.E. Edinger Associates, Wayne, PA for U. S. Army Corps of Engineers Savannah River District, Vicksburg, MS. Report nr DACW39-81-M-2788.
- Buchak EM and Edinger JE. 1984. Generalized, longitudinal-vertical hydrodynamics and transport: development, programming and applications. J.E. Edinger Associates, Wayne, PA for U. S. Army Corps of Engineers Savannah River District, Vicksburg, MS. Report nr DACW39-84-M-1636.
- Bulter HL. 1980. Evolution of a numerical model for simulating long-period wave behavior in ocean-estuarine systems. University of Hamburg. pp. 55-59.
- Caley MJ and Schluter D. 1997. The relationship between local and regional diversity. Ecology 78(1):70-80.
- Callaway JC, Nyman JA and DeLaune RD. 1996. Sediment accretion in coastal wetlands: a review and a simulation model of processes. Current Topics in Wetland Biogeochemistry 2:2-23.
- Carey AE, Hutto S, and Lyons WB. 1997. Missouri River silicate, 1973 to present. Trans. AGU 78:F207-208.
- Carroll RWH, Warwick JJ, Heim KJ, Bonzongo J-C, Miller JR and Lyons WB. in review. Simulation of mercury transport and fate in the Carson River, Nevada. AWRA Bulletin.
- Cerco CF. 1995. Response of Chesapeake Bay to nutrient load reductions. ASCE J. Environ. Eng. Div. 121(8):549-557.

- Cerco CF and Cole TM. 1993. Three-dimensional eutrophication model of Chesapeake Bay. ASCE J. Environ. Engr. Div. 119(6):1006-1025.
- Cerco CF and Cole TM. 1995. Draft user documentation: release version 1.0 of the QUALICM three-dimensional eutrophication model. Water quality and contaminant modeling group, U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
- Cheng RT. 1978. Modeling of hydraulic systems by finite element methods. New York: Academic.
- Cheng RT, Casulli V and Gartner JW. 1993. Tidal, Residual, Intertidal Mudflat (TRIM) model and its applications to San Francisco Bay, California. Estuarine, Coastal and Shelf Science 36:235-280.
- Cheng RT and Smith PE. 1989. A survey of three-dimensional numerical estuarine models. In: Spaulding ML, editor. Estuarine and Coastal Modeling: ASCE. pp. 1- 15.
- Chmura GL, Costanza R and Kesters EC. 1992. Modelling coastal marsh stability in response to sea level rise: a case study in coastal Louisiana, USA. Ecological Modelling 64:47-64.
- Chuang WS and Wiseman WJ. 1983. Coastal sea level response to frontal passages on the Louisiana-Texas Shelf. Journal of Geophysical Research 88(C4):2615-2620.
- Cole JJ, Peierls BL, Caraco NF and Pace ML. 1993. Nitrogen loading of rivers as a human-driven process. In: McDonnell MJ, Pickett STA, editors. Humans as Components of Ecosystems: Springer-Verlag. pp. 141-157.
- Cole TM. 1993. CE-QUAL-W2: a two-dimensional, laterally averaged, hydrodynamic and water quality model. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
- Conrads PA and Smith PA. 1996. Simulation of water level, streamflow, and mass transport for the Cooper and Wando Rivers near Charleston, South Carolina. South Carolina Dept. of Health and Environ. Control, Charleston, SC. Report nr Water-Resources Investigation report 96-4237.
- Consultants W. 1996. Evaluation of hydrodynamic and contaminant transport computer models for application to Duwamish River and Elliott Bay. King Country Department of Natural resources, Seattle, WA.
- Costanza R, DeBellevue E, Maxwell T and Jacobsen M. 1993. Development of the Patuxent Landscape Model (PLM). Phase I. Maryland International Institute of Ecological Economics, Center for Environmental and Estuarine Studies.
- Costanza R, Kemp WM and Boynton WR. 1993. Predictability, scale, and biodiversity in coastal and estuarine ecosystems: implications for management. Ambio 22(2- 3):88-96.
- Costanza R and Ruth M. 1998. Using dynamic systems modeling to scope environmental problems and build consensus. Environmental Management 22:183-195.
- Costanza R, Sklar FH and Day JW. 1987. Using the coastal ecological landscape spatial simulation (CELSS) model for wetland management. Coastal Zone '87. Proc. of the 5th Symposium on Coastal and Ocean Management 4:3879-3890.

- Costanza R, Sklar FH and White ML. 1990. Modeling coastal landscape dynamics. *BioScience* 40(2):91-107.
- Costanza R, Sklar FH, White ML and Day JW. 1988. A dynamic spatial simulation model of land loss and marsh succession in coastal Louisiana. In: Mitsch WJ, Staskraba M, Jorgensen SE, editors. *Wetland Modelling*. Amsterdam: Elsevier. p 99-114.
- Costanza R, Sklar FH, White ML and Day JW. 1989. Modeling landscape dynamics in the Atchafalaya/Terrebonne marshes of coastal Louisiana using the CELSS model: executive summary; 1989. U.S. Fish and Wildlife Service.
- Day J, et al. 1995. Impacts of sea-level rise on deltas in the Gulf of Mexico and the mediterranean: The importance of pulsing events to sustainability. *Estuaries* 18(4):636-647.
- Day JW, Madden CJ, Twilley RR, Shaw RF, McKee BA, Dagg MJ, Childers DL, Raynie RC and Rouse LJ. 1995. The influence of Atchafalaya River discharge on Fourleague Bay, Louisiana(USA). In: Dyer KR, Orth RJ, editors. *Changes in Fluxes in Estuaries*: Olsen and Olsen. pp. 151-160.
- Day JW, Martin JF, Cardoch LC and Templet PH. 1997. System functioning as a basis for sustainable management of deltaic ecosystems. *Coastal Management* 25:115-153.
- Day JW and Templet PH. 1989. Consequences of sea level rise: implications from the Mississippi Delta. *Coastal Management* 17:2411-257.
- Dortch MS. 1990. Three-dimensional, Lagrangian residual transport computed from and intratidal hydrodynamic model. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS. Report nr EL-90-11.
- Dortch MS. 1998. Personal Communication. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
- Dortch MS and Boyt WL. 1983. Simulating advective transport in reservoirs. Massachusetts Institute of Techonology, Cambridge, MA. ASCE.
- Edinger JE and Buchak EM. 1980. Estuarine laterally averaged numerical dynamics: the development and testing of the estuarine boundary conditions in the LARM code.
- J.E. Edinger Associates, Wayne, PA for U. S. Army Corps of Engineers Savannah River District, Savannah,GA. Report nr DACW21-80-C-0042.
- Edinger JE and Buchak EM. 1980. Numerical hydrodynamics of estuaries. *Estuarine and Wetland Processes with Emphasis on Modeling*. New York: Plenum.
- Edinger JE and Buchak EM. 1985. Waterbody dynamics. J.E. Edinger Associates, Wayne, PA. Report nr 85-36-R.
- Elder BK. 1994. Coupling of two-dimensional hydrodynamic and water quality models to simulate wetting and drying of tidal marshes [MS Thesis]: Clemson University, Clemson, SC.
- Engel JJ, Hotchkiss RH and Hall BR. 1995. Three-dimensional sediment transport modeling using CH3D computer model. In: Espey WH, Combs PG, editors: ASCE. Farmer RC and



- Waldrop WR. 1977. A model for sediment transport and delta formation. Charleston, SC. ASCE.
- Feigner KD and Harris HS. 1970. Documentation report-FWQA dynamic estuary model. U.S. Environmental Protection Agency, Water Quality Office, Washington, D.C.
- Folke C, Holling CS and Perrings C. 1996. Biological diversity, ecosystems, and the human scale. *Ecological Applications* 6(4):1018-1024.
- Fread DL. 1985. Channel routing. In: Anderson MG, Burt TP, editors. *Hydrological Forecasting*. New York: John Wiley and Sons. pp. 437-503.
- Fread DL. 1988 (revised 1991). The NWS DAMBRK model: theoretical back ground/user documentation. National Weather Service, Hydrologic research laboratory, Silver Spring, MD. Report number HRL-256.
- Froehlich DC. 1989. HW301. D-finite element surface-water modeling system: twodimensional flow in a horizontal plane, user's manual. Federal Highway Administration Report. Report number FHWA-RD-88-177.
- Genet LA, Smith DJ, and Sonnen MB. 1974. Computer program documentation for the dynamic estuary model. Water Resources Engineers, Inc., Walnut Creek, California, for U. S. Environmental Protection Agency, Systems Developmental Branch, Washington, D.C.
- Gerdes R. 1993. A primitive equation ocean circulation model using a general vertical coordinate transformation-1. Description and testing of the model: AGU. *Journal of Geophysical Research (Oceans)* 98(C8):14683-14701.
- Goodwin CR. 1987. Tidal flow, circulation, and flushing changes caused by dredge and fill in Tampa Bay, Fl. U. S. Geological Survey Water Supply, U. S. Government Printing Office, Washington, D.C. Report number 2282.
- Gordon RB, and Spalding ML. 1977. A three-dimensional model of estuarine circulation. University of Rhode Island, Ocean Engineering, NOAA/Sea Grant, Narrangansett, RI. Report number 91.
- Gritton EC. 1972. A water-quality simulation model for well-mixed estuaries and coastal sea: vol. V, Jamaica Bay rainstorms. Rand Inst: New York. Report number R- 1010-NYC.
- Hacker S. 1973. Transport phenomena in estuaries [Dissertation]. Baton Rouge, La: Louisiana State University. 355 p.
- Haidvogel DB, Wildin JL, and Young R. 1991. A semi-spectral primitive equation ocean circulation model using vertical sigma and orthogonal curvilinear horizontal coordinates. *J. Computational Physics* 94:151-185.
- Hall BR. 1996. Quantifying sedimentation using a three dimensional sedimentation model. U.S. Army Corps of Engineers Committee on Water Quality, Seattle, WA. pp. 88-93.
- Hamilton GD, Soileau CW, and Stroud AD. 1982. Numerical modeling study of Lake Ponchartrain, ASCE. *Journal of Waterways, Port, Coastal, and Ocean Div* 108(WW1):49-64.

- Hamrick J. 1994. A three-dimensional model of Turkey creek and adjacent Indian Lagoon. Virginia Institute of Marine Science. Report number Technical Report.
- Hansen W. 1956. Theorie zur errechnung des wasserstandes und der stromungen. Randmeeren nebst Anwendung, Tellus(8):287-300.
- Hansen W. 1962. Hydrodynamical methods applied to oceanographic problems: Mitt. Inst. Meereskd., University of Hamburg, Germany.
- Harding J, Preller R, and Rhodes R.1999. Coastal Ocean Prediction at the Naval Research Laboratory. New Orleans, LA.
- Harlemen DRF, Dailey JE, Thatcher ML, Najarian TO, Brocard DN, and Ferrara RA. 1977. User's manual for the M.I.T. transient water quality network model including nitrogen-cycle dynamics for rivers and estuaries. U.S. Environmental Protection Agency, Corvallis, OR. Report nr EPA-600/3-77-010.
- Hart WE. 1978. A numerical study of currents, water surface elevations, and energy dissipation in Chandeleur-Breton Sound, Louisiana. Baton Rouge, LA: Coastal Studies Institute, Louisiana State University. Report number 250. 97 p.
- Hart WE and Murray SP. 1978. Energy balance and wind effects in a shallow sound. Journal of Geophysical Research 83:4097-4106.
- Hashim NB, Shindala A, Zitta VL, and Huddleston DH. 1999. Development of Watershed, Hydrodynamic, and Water Quality Models for St. Louis Bay, Mississippi. New Orleans, LA.
- Hayter EJ. 1983. Ocean and Coastal Engineering [Dissertation]: University of Florida, Gainesville, FL.
- Hayter EJ. 1986. Mathematical modeling of cohesive sediment transport Jackson, MS. pp. 430-442.
- Hayter EJ, Bergs MA, Gu R, and McCutcheon SC. 1993. Finite element hydrodynamic cohesive sediment transport modeling system SED2D, draft report. U. S. Environmental Protection Agency, Athens, GA.
- Hayter EJ, Bergs MA, Gu R, and McCutcheon SC. 1997. HSCTM-2D, a finite element model for sediment and contaminant transport, draft report. U. S. Environmental Protection Agency, Athens, GA.
- Hayter EJ and Mehta AJ. 1986. Modeling of cohesive sediment transport in estuarial waters. Applied Mathematical Modeling 10(4):294-303.
- Hayter EJ and Pakala CV. 1987. Modeling of cohesive sediment-pollutant interaction in surface waters. Williamsburg, VA. ASCE. pp. 225-230.
- Hayter EJ and Pakala CV. 1989. Transport of inorganic contaminants in estuarial waters. Journal of Coastal Research Special Issue No. 5:217-230.
- Heaps NS. 1969. A two-dimensional numerical sea model. Philosophy Transactions Royal Society London Series A(265):93-137.

- Hess K W and White FM. 1974. A numerical tide model of Narragansett Bay. University of Rhode Island, Ocean Engineering Sea Grant Marine Technical Report, Kingston, RI. Report number 20.
- Hinwood JB and Wallis IG. 1975a. Classification of models of tidal waters. ASCE Journal Hydraulic Division 101(HY10):1315-1331.
- Hinwood JB and Wallis IG. 1975b. Review of models in tidal waters. ASCE J. Hydraul. Engr. Div. 101(HY11):1405-1421.
- Hopkinson CS and Vallino JJ. 1995. The relationships among man's activities in watersheds and estuaries: a model of runoff effects on patterns of estuarine community metabolism. *Estuaries* 18:598-621.
- Hosseini-pour EZ and Martin JL. 1990. RIVMOD: a one-dimensional hydrodynamic and sediment transport model, User's Manual. U. S. Environmental Protection Agency, Athens, GA.
- Howarth RW, et al. 1996. Regional nitrogen budgets and riverine N and P fluxes for the drainages to the North Atlantic Ocean: Natural and human influences. *Biogeochem* 35:75-139.
- Huang W and Spalding ML. 1995. 3D Model of estuarine and water quality induced by surface discharges. ASCE J Hydraulic Engineering Div 121(4):300-311.
- Humborg C, Ittekkot V, Cociasu A and Bodungen BV. 1997. Effect of Danube River dam on Black Sea biogeochemistry and ecosystem structure. *Nature* 386:385-386.
- Inoue M, Day JW and Justic D. 1996. Ecological linkages among wetland, bay, and shelf systems: II. Development of linked hydrodynamic and ecological spatial models. Baton Rouge, LA: Louisiana Sea Grant Program, Louisiana State University. 68 p.
- Inoue M, Wiseman WJ and Park D. 1998. Coastal marine environmental modeling. New Orleans, La.: U. S. Dept. of the Interior Minerals Management Service, Gulf of Mexico OCS Region. 133 p.
- Inoue M and Wiseman WJ. 1995. Modeling shear-flow dispersion, transport and mixing processes in Louisiana estuaries; Galveston, Tx.
- Inoue M and Wiseman WJ. 1996. Modeling circulation, transport, and mixing processes in Louisiana estuaries. EOS, Transactions American Geophysical Union 76.
- Johnson BH. 1980. A review of multidimensional reservoir hydrodynamic modeling. Minneapolis, MN. ASCE.
- Johnson BH, Heath RE, Hsieh BB, Kim KW and Butler HL. 1991. Development and verification of a three-dimensional numerical hydrodynamic, salinity, and temperature model of Chesapeake Bay. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS. Report nr HL-91-7.
- Johnson BH, Kim KW, Heath RE, Hsieh BB and Butler HL. 1993. Validation of threedimensional hydrodynamic model of Chesapeake Bay. ASCE Journal of Hydraulic Engineering 119(1):2-20.

- Jordan TE and Weller DE. 1996. Human contributions to terrestrial nitrogen flux: Assessing the sources and fates of anthropogenic fixed nitrogen. *Bioscience* 46(655-664).
- Justic D, Rabalais NN and Turner RE. 1996. Effects of climate change on hypoxia in coastal waters: a doubled CO<sub>2</sub> scenario for the northern Gulf of Mexico. *Limnology and Oceanography* 41(5):992-1003.
- Keen TR and Stavn RH. 1999. Developing A capability to forecast coastal ocean optics: minerogenic scattering; New Orleans, LA.
- King IP. 1982. A finite element model for three dimensional flow. Resource Management Associates, Lafayette, CA for U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
- King IP. 1982. A three dimensional finite element model for stratified flow in Finite Elements in Water Resources. In: Holz KP, Meissner W, Zielke W, Brebbia CA, Pinder G, Gray W, editors; Hanover, Germany. Springer-Verlager.
- King IP. 1988. A model for three-dimensional density stratified flow. Resource Management Associates, Lafayette, CA for U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
- Kirkby MJ, A.C. Imeson, G. Bergkamp and Cammeraat LH. 1996. Scaling up processes and models from the field plot to the watershed and regional areas. *Journal of Soil and Water Conservation* Sept-Oct:391-396.
- Kotliar NB and Wiens JA. 1990. Multiple scales of patchiness and patch structure: a hierarchical framework for the study of heterogeneity. *Oikos* 59:253-260.
- Krone RB. 1982. Engineering wetlands circulation, sedimentation, and water quality. In: Josselyn M, editor. Wetland restoration and enhancement in California, REPT. TCSGCP-007, a California Sea Grant Program Publication.
- Laevaste T, Clancy M and Stroud A. 1974. Computation of tides, currents and dispersal of pollutants in Lower Bay and approaches to New York with fine and medium size hydrodynamical-numerical models. Environmental Prediction Research Facility Technical Note, Naval Postgraduate School, Monterey, CA. Report number 3-74.
- Lee JK and Froehlich DC. 1989. HW301. X research report. U. S. Federal Highway Administrative Report.
- Lee JM, Wiseman WJ and Kelly FJ. 1990. Barotropic sub-tidal exchange between Calcasieu Lake and the Gulf of Mexico. *Estuaries* 13(3):258-264.
- Leendertse JJ. 1967. Aspects of a computation model for long-period water-wave propagation. U. S. Air Force Project RAND, Rand Corp., Santa Monica, CA. Report number Memorandum report No. RM-5294-PR.
- Leendertse JJ. 1970. A water quality simulation model for well mixed estuaries and coastal seas: vol. I, principles of computation. Rand Inst., Santa Monica, CA. Report number RM-6230-RC.

- Leendertse JJ. 1972. A water quality simulation model for well mixed estuaries and coastal seas: vol. IV, Jamaica Bay tidal flows. Rand Inst., New York. Report number R-1009-NYC.
- Leendertse JJ. 1987. Aspects of SIMSYS2D, a system for two-dimensional flow computation. Rand Corp., Santa Monica, CA, 80. Report nr R-3752-USGS.
- Leendertse JJ. 1989. A new approach to three-dimensional free-surface flow modeling. Rand Corp., Santa Monica, CA. Report nr R-3712-NETH/RC.
- Leendertse JJ, Alexander RC and Liu S. 1973. A water quality simulation model for well mixed estuaries and coastal seas: vol. I, computational procedures. Rand Corp., Pasadena, CA. Report number R-708-NYC.
- Leendertse JJ and Gritton. 1971a. A water quality simulation model for well mixed estuaries and coastal seas: vol. II, computation procedures. Rand Inst., New York, 53. Report number R-708-NYC.
- Leendertse JJ and Gritton. 1971b. A water quality simulation model for well mixed estuaries and coastal seas: vol. III, Jamaica Bay simulation. Rand Inst., New York. Report number R-709-NYC.
- Leendertse JJ and Liu S. 1974a. Comparison of observed estuarine tide data with hydraulic model data by the use of cross-spectral density functions. Rand Inst., New York. Report number R-1616-NYC.
- Leendertse JJ and Liu S. 1974b. A three-dimensional model for well mixed estuaries and coastal seas, vol IV, simulation, observation, and state estimation. Rand Inst., New York. Report nr R-1586-NYC.
- Leendertse JJ and Liu S. 1975a. A water quality simulation model for well mixed estuaries and coastal seas: vol. II, aspects of computation. Rand Corp., Pasadena, CA. Report number R-1764-OWRT.
- Leendertse JJ and Liu. 1975b. A water quality simulation model for well mixed estuaries and coastal seas: vol. VIII, an engineering assessment. Rand Inst., New York. Report number R-179109-NYC.
- Leendertse JJ and Nelson AB. 1978. A water-quality simulation model for well mixed estuaries and coastal seas: vol. IX, the computer program. Rand Corp., Santa Monica, CA. Report number R-2298-RC.
- Leonard B. 1979. A survey of finite differences of opinion on numerical muddling of the incomprehensible defective confusion equation; 1979; New York. ASME.
- Levin SA. 1992. The problem of pattern and scale in ecology. *Ecology* 73(6).
- Lewis CA, Lester NP, Bradshaw AD, Fitzgibbon JE, Fuller K, Hakanson L and Richards C. 1996. Considerations of scale in habitat conservation and restoration. *Canadian Journal of Fisheries and Aquatic Sciences* 53(Supplement (S1)):440- 445.
- Liu S and Nelson A. 1977. A three-dimensional model for well-mixed estuaries and coastal seas: vol. V, turbulent energy program. Rand Corp., Pasadena, CA. Report number R-2188-OWRT.

- Liu SK and Leendertse JJ. 1978. Multidimensional numerical modeling of estuaries and coastal seas. *Advances in Hydrosience*. New York: Academic. pp. 95-164.
- Livingston RJ. 1991. Historical relationships between research and resource management in the Apalachicola river estuary. *Ecological Applications* 1(4): 361- 382.
- Lyons WB, Carey AE, Bonzongo J-C, Smith S, and Lehrter JC. in preparation. N balance of the Mississippi River watershed: Where's the missing N? *Journal of Environmental Management*
- Martin JF, White ML, Reyes E, Kemp GP, Mashriqui H, and Day JW. 2000. Evaluation of Coastal Management Plans with a Spatial Model: Mississippi Delta, Louisiana, USA. *Environmental Management* 26(2):117-129.
- Martin JF, Reyes E, Kemp GP, Mashriqui H, and Day J, J.W. 2002. Landscape modeling of the Mississippi Delta. *BioScience* 52(4):357-365.
- Masch FD, Shankar JJ, Jeffery M, Brandes RY, and Shite WA. 1969. A numerical model for simulation of tidal hydrodynamics in shallow irregular estuaries. University of Texas Hydraulic Engineering Lab., Austin, TX. Report number HYD12-6901.
- Masch FD, Narayanan M, and Brandes RY. 1971. A short-term conservative transport model for shallow estuaries. Univeristy of Texas Hydraulic Engr. Lab., Austin, TX. Technical Report HYD12-7104.
- Mashriqui HS. 2003. Hydrodynamic and sediment transport modeling of deltaic sediment processes [Dissertation]. Baton Rouge, LA: Louisiana State University. 146 p.
- McCutcheon SC. 1982. Evaluation of selected one-dimensional stream water-quality models with field data. NTSL Station, MS. Report nr U. S. Geological Survey Open File Report 82-361.
- McCutcheon SC. 1983a. Evaluation of stream water-quality models. In: Medine A, Anderson M, editors; Boulder, CO. ASCE. pp. 190-195.
- McCutcheon SC. 1983b. Evaluation of selected one-dimensional stream water-quality models with field data. U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS. Report number E-83-11.
- Mellor G and Yamada P. 1985. Development of a turbulence-closeure model for geophysical fluid problems. *Review of Geophysics and Space Physics* 20(4):851- 875.
- Morton MR and Ji Z-G. 1999. Wet/Dry Modeling of Hydrodynamics and Sediment Transport in Morro Bay. New Orleans, LA.
- Mungall JCH and Matthews JB. 1970. A variable boundary numerical tidal model. University of Alaska, Institute of Marine Science, College, AK. Report number R70-4.
- Najarian TO and Harleman DR. 1975. A real-time model of nitrogen cycle dynamics in an estuarine system. R. M. Parsons Laboratory for Water Resources and Hydrodynamcis, Massachusetts Institute of Technology, Cambridge, MA.
- Nihoul J and Jamarf B, editors. 1987. Three-dimensional models of marine and estuarine dynamics. Amsterdam, Netherlands: Elsevier Scientific.

- Norton WR, King IP and Orlob GR. 1973. A finite element model for Lower Granite Reservoir, water quality report: Lower granite lock and dam, Snake River, Washington-Idaho-Finite Element Hydrodynamic Model, Appendix F, vol 3 of 3. Water Resources Engineers, Inc., for U. S. Army Corps of Engineers District, Walla Walla, WA.
- Noye J and Stevens M. 1987. A three-dimensional model of tidal propagation using transformations and variable grids. In: Heaps NS, editor. Three-dimensional coastal ocean models. Washington, D.C. pp. 41-69.
- Olson O and Kincaid C. 1988. Numerical model of Patuxent River Estuary river hydrodynamics. Dept. of Earth and Planetary Science, John Hopkins Univeristy, Baltimore, MD.
- Pagenkopf JR, Christodoulou GC, Peach BR and Connor DJ. 1976. A user's manual for CAFE-1, a two-dimensional finite element circulation mode. Massachusetts Institute of Technology, Department of Civil Engineering, Cambridge, MA. Report number 217.
- Park D. 1998. A model study of the Barataria Basin system [M. S. thesis]. Baton Rouge, LA.: Louisiana State University. 133 p.
- Penland S and Ramsey KE. 1990. Relative sea-level rise in Louisiana and the Gulf of Mexico: 1908-1988. *Journal of Coastal Research* 6(2):323-342.
- Pezeshki SR and DeLaune RD. 1996. Factors controlling coastal wetland formation and losses in the northern Gulf of Mexico, USA. *Recent Research and Developments in Coastal Resources* 1:13-27.
- Pickens MK and Lick WJ. 1992. The transport and fate of drilling muds. In: Spalding ML, Bedford K, Blumber A, Cheng R, Swanson C, editors. *Estuarine and Coastal Modeling*. New York: ASCE, Waterways, Port, Coastal and Ocean Division.
- Prager EJ. 1992. Modeling of circulation and transport in Terrebonne Bay, Louisiana, and its implications for oyster harvesting management [Dissertation.]. Baton Rouge, LA: Louisiana State University. 145 p.
- Reid RO and Bodine BR. 1968. Numerical model for storm surges in Galveston Bay. *ASCE Journal of Waterways and Harbors Div* 94(WWI):33-57.
- Reyes E, Costanza R, Waigner L, Debellevue E and Bockstael N. 1996. Integrated ecological economics regional modelling for sustainable development. In: Faucheux S, Pearce D and Proops J, editors. *Models of Sustainable Development*. Cheltenham, UK: Edward Elgar Publishing Co. pp. 253-277.
- Reyes E, Day JW and Sklar FH. 1994. Ecosystem models of aquatic primary production and fish migration in Laguna de Terminos, Mexico. In: Mitsch WJ, editor. *Global Wetlands: old world and new*. Amsterdam: Elsevier Scientific Publ. pp. 519-536.
- Reyes E, Martin JF, White ML, Day JW and Kemp GP. 2003. Habitat changes in the Mississippi delta: Future scenarios and alternatives. In: Voinov A, Costanza R, editors. *Explicit Landscape Modeling*. New York: Springer-Verlag. pp. 119-142.
- Reyes E, Sklar FH and Day JW. 1994. Modeling Approach for Fish Migration across a Landscape: the regional organism exchange (ROE) model. *Ecological Modelling* 74:256-276.

- Reyes E, White ML, Martin JF, Kemp GP, Day JW and Aravamuthan V. 2000. Landscape modeling of coastal habitat change in the Mississippi delta. *Ecology* 81(8):2331-2349.
- Rodi W. 1980. Turbulence models and their application in hydraulics- A state of the art review. Delft, Netherlands: International Association for Hydraulic Research.
- Roig LC. 1989. A finite technique for simulating flows in tidal flats [MS Thesis, Civil Engineering]: University of California Davis, Davis, CA.
- Roig LC. 1996. CEWES hydrodynamic modeling of Florida Bay, Overheads, Florida Bay Interagency Modeling Workshop, April 17-18, Marathon, FL.
- Roig LC and King IP. 1992. A finite element model for flows in flood plains and tidal flats. University of California Davis, Davis, CA.
- Schaffranek RW, Baltzer RA and Goldberg DE. 1981. A model for simulation of flow in singular and interconnected channels, techniques of water-resources investigations, chapter 3, book 7. Reston, VA: U. S. Geological Survey.
- Schmalz RA. 1985. User guide for WIFM-SAL: a two-dimensional vertically integrated, time-varying estuarine transport model. U.S. Waterways Experiment Station, Vicksburg, MS.
- Schroeder WW and Wiseman WJ. 1986. Low-frequency shelf-estuarine exchange processes in Mobile Bay and other estuarine systems on the northern Gulf of Mexico. In: Wolfe DA, editor. *Estuarine Variability*. Orlando, FL: Academic Press. p 355-367.
- Sheng YP. 1980. Modeling sediment transport in a shallow lake. In: Hamilton O, Macdonald K, editors. *Estuarine and Wetland Processes*. New York: Plenum Press. p 299-338.
- Sheng YP. 1982. Hydraulic applications of a second-order closure model of turbulent transport. In: Smith P, editor. *Applying research to hydraulic practice*: ASCE. pp. 106-199.
- Sheng YP. 1994. Modeling hydrodynamics and water quality in shallow waters, Keynote Paper: Taman Negara, Malaysia.
- Sheng YP. 1999. Integrated Modeling of Coupled Hydrodynamic-Sedimentary-Ecological Processes. New Orleans, LA.
- Sheng YP and Butler HL. 1982. A three-dimensional numerical model of coastal, estuarine and lake currents. Aeronautical Research Association, Princeton, NJ. Report number 82-07.
- Sheng YP, Eliason DE, Chen XJ and Choi JK. 1993. SED3D, a three-dimensional numerical model of hydrodynamics and sediment transport in lakes and estuaries. USEPA Environmental Research Laboratory, Athens, GA. Report no Cooperative Agreement CR 814345.
- Sheng YP, Zakikhani M, and McCutcheon SC. 1990. Three-dimensional hydrodynamic model for stratified flows in lakes and estuaries (HYDRO3D): theory, user guidance, and applications for Superfund and ecological risk assessments. U.S. EPA Report, Athens, GA.
- Shugart HH and Urban DL. 1983. Scale, synthesis, and ecosystem dynamics. *Concepts of Ecosystem Ecology: a comparative view* 67(Chap. 14):279-289.



- Simons T. 1980. Circulation models of lakes and inland seas. Canadian Bull. Fisheries and Aquatic Sciences 203.
- Sklar FH, Costanza R, Childers DL, Debellevue EB, Jacobsen MS, Maxwell T, and White ML. 1992. Developments in regional scale simulation and analysis: case studies from coastal wetland ecosystems. *Some Indian Journal*: 47-62.
- Sklar FH, Costanza R, and Day JW, Jr. 1985. Dynamic spatial simulation modeling of coastal wetland habitat succession. *Ecological Modeling* 29:261-281.
- Smith PE. 1997. A three-dimensional, finite difference model for estuarine circulation [Doctoral Dissertation]: University of California Davis, Davis, CA.
- Smith RA, Alexander RB and Wolman MG. 1987. Water-Quality trends in the nation's rivers. *Science* 235:1607-1615.
- Stroud AD and Bauer RA. 1978. User guide for the enhanced hydronumerical model. U. S. Environmental Protection Agency, Corvallis, OR. Report number EPS-600/3- 78-074.
- Suhayda J. 1999. Personal Communication. Louisiana Water Resources Research Institute, Louisiana State University.
- Szczecowski C and Carron MJ. 1999. The Northern Gulf of Mexico Littoral Modeling Demonstration New Orleans, LA.
- Thomas WA and McAnally WH. 1985. User's manual for the Generalized Computer Program System- Open Channel Flow and sedimentation. U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS. Report number TABS- 2.
- Turner RE. 1990. Landscape Development and Coastal Wetland Losses in the Northern Gulf of Mexico. *Amer. Zool.* 30:89-105.
- Turner RE. 1997. Wetland loss in the northern Gulf of Mexico: multiple working hypotheses. *Estuaries* 20(1):1-13.
- Twilley RE. 2002. Conceptual ecological models for planning and evaluating the Louisiana Coastal Area Restoration plan. Lafayette, LA: University of Louisiana at Lafayette. 300 p.
- Twilley R. 2003. Conceptual models for developing the LCA Comprehensive Restoration Plan. Lafayette, LA.
- US Army Corps of Engineers. Environmental and Hydraulics Laboratory. 1986. CEQUAL- W2: A numerical two-dimensionanl, laterally averaged model of hydrodynamics and water quality. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS. Report nr Instruction Report E-86-5.
- US Army Corps of Engineers. Environmental and Hydraulics Laboratory. 1995. CEQUAL-RIV1: a dynamic, one-dimensional (longitudinal) water quality model for streams, user's manual. U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS. Report nr Instructuion Report E-86-5.
- Vemulakonda SR, and Johnson BH. 1999. Impact of upstream flows on salinity intrusion in the Lower Mississippi River New Orleans, LA.

- Visser JM, Reed DJ, Steyer GD, Callaway J, Swenson E, Suir G, and Suhayda JN. 2003. Louisiana coastal area nourishment module. In: Twilley R, editor. Conceptual models for developing the LCA Comprehensive Restoration Plan. Lafayette, LA.
- Waldrop WR and Tatom FB. 1976. Analysis of the thermal effluent from the Gallatin Steam plant during low flows. Tennessee Valley Authority, Norris, TN. Report nr Rept. 33-30.
- Walters RA. 1988. A finite element model for tides and currents with field applications. *Communications in Applied numerical Methods* 4:401-411.
- Walters RA. 1992. A three-dimensional, finite element model for coastal and estuarine circulation. *Continental Shelf Research* 12(1): 83-102.
- Walters RA. 1997. A model study of tidal and residual flow in Delaware Bay and river. *AGU J. Geophysical Research (Oceans)* 102(C6): 12689-12704.
- Wang DP and Kravitz DW. 1980. A semi-implicit two-dimensional model of estuarine circulation. *Journal of Physical Oceanography* 10:441-454.
- Wang JD. 1978. Real time flow in unstratified shallow water. *ASCE J. Waterway, Port, Coastal and Ocean Engr. Div* 104(WW1): 53-68.
- Wang JD. 1987. Hurricane effects on surface Gulf Stream currents. *Ocean Engr* 14(3):165-180.
- Wang JD, Blumberg AF, Butler HL and Hamilton P. 1990. Transport prediction in partially stratified tidal water. *J. Hydraul. Engr.* 116(3): 380-396.
- Wang JD and Connor JJ. 1975. Mathematical modeling of near coastal circulation. Massachusetts Institute of Technology, Department of Civil Engineering, Cambridge, MA. Report number 217.
- Wang JD and Monjo C. 1995. A study to define model and data needs for Florida Bay. Applied Marine Physics, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, FL.
- Wang PF. 1992. Review of equations of conservative in curvilinear coordinates. *ASCE Journal of Engineering Mechanics* 118(11):2265-2281.
- White JD and Running SW. 1994. Testing scale dependent assumptions in regional ecosystem simulations. *Journal of Vegetation Science* 5(5): 687-702.
- White ML and Day JW. 1998. The Barataria-Terrebonne estuary landscape model. Baton Rouge, LA: Louisiana State University. Report number 31. 560 p.
- White ML, Maxwell T, Costanza R and Doyle TW. 1991. Ecosystem modeling of Barataria Basin, Louisiana: Utilizing desktop parallel technology. American Water Resources Association.
- Wiseman WJ and Inoue M. 1994. Salinity variability and transport processes. Baton Rouge, LA: Coastal Studies Institute, Louisiana State University. Report nr Final Report submitted to U. S. Geological Survey. 3.1- 3.31 p.
- Wiseman WJ and Swenson EM. 1989. Modelling the effects of produced water discharge on estuarine salinity. Chauvin, LA: Louisiana Universities Marine Consortium. Report to the Louisiana Division of the Mid-Continent Oil and Gas Association. 287 p.

Ziegler CK and Nisbet BS. 1995. Long-term simulation of fine-grained sediment transport in large reservoirs. ASCE J. Hydraul. Engr. 121(11): 773-781.

---

## Chapter 6

- Campbell. 2002. Florida shore and beach preservation association. Annual meeting Captiva Island, Florida.
- Campbell T and Jenkins M. Design considerations for hot spot erosion areas on beach nourishment projects. 2002 Cardiff, Wales.
- Capobianco M, Hanson H, Larson M, Steetzel H, Stive MJF, Chatelus Y, Aarnikhof S, And Karambas T. 2002. Nourishment design and evaluation: applicability of model concepts. Coastal Engineering 47(2):113-137.
- Council NR. 1995. Beach nourishment and protection. Marine Board Commission on Engineering and Technical Systems. National Academy of Sciences, U.S.
- Dean RG. Heuristic models of sand transport in the surf zone. 1973. Sydney, Australia. p 208-214.
- Dean RG. 1977. Equilibrium Beach Profiles: U.S. Atlantic and the Gulf Coast.
- Department of Civil Engineering, Ocean Engineering. University of Delaware, Newark, DE. Report number Report No. 12.
- Dean RG. 1991. Equilibrium beach profiles: characteristics and applications. Journal of Coastal Research 7(1):53-84.
- Dean RG. 2002. Beach nourishment: theory and practice. River Edge, NJ. World Scientific. 397 p.
- Dean RG, and Yoo CH. 1992. Beach nourishment performance predictions. Journal of Waterways, Port, Coastal and Ocean Engineering 118(6):567-585.
- Coastal Planning and Engineering. 2000. Holly Beach Breakwater Enhancement and Sand Management Plan. Boca Raton, FL.
- Coastal Planning and Engineering. 2003. Chadland Headland and Pelican Island Barrier Shoreline Restoration. Boca Raton, FL.
- FitzGerald DM, Argow BA, and Buynevich IV. 2003. Rising sea level and its effect on backbarrier marshes and tidal flats, tidal Inlets and barrier shorelines. Clearwater, FL.
- Gourlay MR. 1968. Beach and dune erosion tests. Delft Hydraulics Laboratory. Report number M935/M936.
- Gravens MB, Kraus NC, and Hanson H. 1991. GENESIS: Generalized model for simulating shoreline change - Report 2 workbook and system user's manual. Vicksburg, MS. Coastal Engineering Research Center, U.S. Army Engineer Waterways Experiment Station. Report nr CERC-89-19.
- Hallermeier RJ. 1981. A profile zonation for seasonal sand beaches from wave climate. Coastal Engineering 4:253-277.
- Hanson H, Brampton A, Capobianco M, Dette HH, Hamm L, Lastrup C, Lechuga A, And Spamhoff R. 2002. Beach nourishment projects, practices, and objectives - a European overview: Elsevier Science. 81-111 p.

- Hanson H, and Kraus NC. 1989. GENESIS-generalized model for simulating shoreline change: US Army Engineer Waterways Experiment Station, Coastal Engineering Research Center. 247 p.
- James WR. 1975. Techniques in evaluating suitability of borrow material for beach nourishment. Vicksburg, MS: US Army Corps of Engineers. Coastal Engineering Research Center. Report number Report Tm60.
- Keehn S, and Pierro T. 2003. Temporal variations of offshore sand bars in response to extreme storm events. Clearwater, FL.
- Kirby R. 2002. Distinguishing accretion from erosion-dominated muddy coasts. [In: Healy T, Wang, Y., and Healy, J-A.editor.] Elsevier Science. 61-81 p.
- Kriebel DL, and Dean RG. 1985. Numerical simulation of time-dependent beach and dune erosion. Coastal Engineering 9:221-245.
- Krumbein WC. 1957. A method for specification of sand for beach fills. Washington, DC. U.S. Army Corps of Engineers, Beach Erosion Board.
- Larson M, and Kraus NC. 1989. SBEACH: Numerical model for simulating storminduced beach change, report 1: empirical foundation and model development. Vicksburg, MS. US Army Engineer Waterways Experiment Station, Coastal Engineering Research Center.
- LCA Science Workshop. 2003. Workshop Sponsored by the USACE-MVN and State of Louisiana Department of Natural Resources. April 23-24, 2003.
- Metha A. 2002. Mudshore dynamic and controls. [ In: Healy T, Wang Y, Healy JA, editors.] Muddy Coasts of the World: Processes, Deposits and Function: Elsevier Science. p 19-57.
- Nicholls RJ, Birkemeier WA, and Hallermeier RJ. 1996. Application of the depth of closure concept. p 3874-3887.
- Penland S, Connor PF, Cretini F, and Westphal KA. 2003. CWPPRA Adaptive management: Assessment of five barrier island restoration projects in Louisiana. Clearwater, FL.
- Penland S, and Ramsey KE. 1990. Relative sea-level rise in Louisiana and the Gulf of Mexico: 1908-1988. Journal of Coastal Research 6(2):323-342.
- Picciola and Associates. 2000. East Timbalier sediments restoration projects TE-25 and TE 30. As built construction phase. Louisiana Department of Natural Resources. 1993. Isles Dernieres restoration plan of the state of Louisiana. Report number 25030-92-61.
- Rosati JD, Wise RA, Kraus NC, and Larson M. 1993. SBEACH: Numerical model for simulation storm-induced beach change. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. Report number 3.
- Rosati JD, Wise RA, Kraus NC, and Larson M. 1993. SBEACH: Numerical model for simulationg storm-induced beach change. Report number 3.
- Shiner and Mosley Associates. 2003. Rockefeller refuge gulf shoreline stabilization: feasibility study 20% design.

- Shremet A and Stone GW. 2003. Wave dissipation due to heterogeneous sediments on the inner Louisiana shelf. Proceedings of the Coastal Sediments '03. St. Petersburg, FL.
- Stone GW and P. W., Armbrudter CK. 1999. Unanticipated response to detached, segmented breakwaters along Raccoon Island, Louisiana. ASCE Press. p 2057- 2072.
- T. Baker Smith & Son I. 1997. Barrier Island feasibility study: Phase 1- Step K report: Identification and assessment of management and engineering techniques. L LADNR. Report number Contract No. 25081-95-02. US Army Corps of Engineers. 2002. Coastal Engineering Manual. Washington, D.C. Report number Engineer Manual 1110-2-1100.
- U.S. Army Corps of Engineers . 1984. Shore protection manual. Washington, DC: U.S. Army Engineer Waterways Experiment Station, U.S. Government Printing Office.
- Van Beek JL and Meyer-Arendt KJ. 1982. Louisiana's Eroding Coastline: Recommendations for protection. Baton Rouge, LA: Coastal Environments, Inc. 50 p.
- Wright LD, May SK, Short AD and Green MO. 1984. Beach and surf zone equilibria and response time. Houston, Texas. p 2150-2164.
-

## Chapter 7

- Berryhill HL, Moslow TF, Penland S, and Suter JR. 1985. Shelf and shoreline sands, northwest Gulf of Mexico. American Association of Petroleum Geologists Short Course Notes, Tulsa, OK.
- Britsch LD. 2001 Sept. Sand resources, regional geology, and coastal processes for the restoration of the Barataria barrier shoreline. St. Petersburg: US Geological Survey. Open File Report 01-384. 69 p.
- Brooks GR, Kindinger J, Penland S, Williams SJ, and McBride RA. 1995. East Louisiana Continental shelf sediments: a product of delta reworking. *Journal of Coastal Research* 11(4):1026-36.
- Byrne JV, LeRoy DO, and Riley, CM. 1959. The chenier plain and its stratigraphy, southwestern Louisiana. *Gulf Coast Association of Geological Societies Transactions* 9:261-70.
- Byrnes MR, and Groat CG. 1991. Characterization of the development potential of Ship Shoal sand for beach replenishment of Isles Dernieres. Baton Rouge: Louisiana Geological Survey, Center for Wetland Resources. Final Report to US Minerals Management Service nr 14-12-0001-30404. 164 p.
- Byrnes MR, Penland S, Ramsey KE, Crawford TG, Kelly RF, and Chisholm TA. 1991. Characterization of the development potential of Ship Shoal Sand for beach replenishment of Isles Dernieres. Herndon, VA: U.S. Minerals Management Service, Office of Marine Minerals International Affairs.
- Byrnes MR, Penland S, Ramsey KE, Crawford TG, Kelly RF, and Rowland J. 1991. Offshore sand resources for coastal erosion in Louisiana: physical environmental considerations and economic feasibility. MTS '91; 1991; Washington: Marine Technology Society. p 755-61.
- Coastal Planning and Engineering, Inc. 2001. Holly Beach breakwater enhancement and sand management plan: Preliminary evaluation of offshore sand sources near Holly Beach, Louisiana. Boca Raton, FL.
- Coleman JM. 1981. Deltas: Processes of Deposition and Models for Exploration. Minnesota: Burgess.
- Coleman JM and Gagliano SM. 1964. Cyclic sedimentation in the Mississippi River deltaic plain. *Gulf Coast Association of Geological Societies Transactions* 14:67-80.
- Coleman JM and Prior DB. 1980. Deltaic sand bodies. In: American Association of Petroleum Geologists Continuing Education Course 1980. Tulsa, OK: American Association of Petroleum Geologists. 171 p.
- Coleman JM, Roberts HH and Bryant WR. 1991. Late quaternary sedimentation. In: Salvador A, editor. *The Gulf of Mexico Basin*. Boulder, CO: Geological Society of America. v J. p 325- 52.
- Coleman JM, Roberts HH and Stone GW. 1998. Mississippi River delta: an overview. *Journal of Coastal Research* 14(3):698-716.

- Curry JR. 1960. Sediments and history of Holocene transgression, continental shelf, northwest Gulf of Mexico. In: Shepard FP, Phleger FB, Van Andel TH, editors. Recent Sediments, Northwestern Gulf of Mexico. Tulsa, OK: American Association of Petroleum Geologists. p 221-36.
- Fisk HN. 1944. Geologic investigations of the alluvial valley of the lower Mississippi River. Vicksburg, Mississippi: U. S. Army Corp of Engineers, Mississippi River Commission. 78 p.
- Fisk HN. 1955. Sand facies of recent Mississippi delta deposits. Proceedings of the 4th world petroleum congress, Section 1; 1955; Rome, Italy. John Wiley & Sons, Chichester, International. p 377-98.
- Fisk HN. 1961. Bar-finger sands of the Mississippi delta. In: Geometry of sandstone bodies. Proceedings of the symposium at the 45th annual meeting of the American Association of Petroleum Geologists; 1960 April 25-28; Atlantic City, NJ. Tulsa, OK: American Association of Petroleum Geologists. p 29-52.
- Fisk HN and McFarlan E Jr. 1955. Late Quaternary deltaic deposits of the Mississippi River. Geological Society of America Special Paper 62:279-302.
- Fisk HN, Kolb CR, McFarlan E. Jr and Wilbert LJ Jr. 1954. Sedimentary framework of the modern Mississippi delta [Louisiana]. Journal of Sedimentary Petrology 24:76-99.
- Flocks J, Kulp MA Fisk HN and McFarlan E Jr. 1955. Late Quaternary deltaic deposits of the Mississippi River. Geological Society of America Special Paper 62:279-302. Kindinger J. 2003. Identifying offshore sand resources to restore Louisiana's barrier shorelines. Proceedings of the 5th international symposium on coastal engineering and science of coastal sedimentary processes, coastal sediments 2003. Clearwater Beach, FL. 13 p.
- Frazier DE. 1967. Recent deltaic deposits of the Mississippi River: their development and chronology. Gulf Coast Association of Geological Societies Transactions 27:287-315.
- Frazier DE. 1974. Depositional episodes: their relationship to the Quaternary stratigraphic framework in the northwestern portion of the Gulf basin: Austin, Texas Bureau of Economic Geology Circular 74-1. 28 p.
- Gould HR, Fisk HN and McFarlan E Jr. 1955. Late Quaternary deltaic deposits of the Mississippi River. Geological Society of America Special Paper 62:279-302.
- McFarlan E. Jr. 1959. Geologic history of the chenier plain, south-western Louisiana. Gulf Coast Association of Geological Societies Transactions 9:261-70.
- Hobson RD. 1979. Definition and use of the phi grade scale. Fort Belvoir, Virginia: U.S. Army Corps of Engineers Coastal Engineering Research Center. Coastal Engineering Technical Aid nr 79- 7. 18 p.
- Inman DL. 1952. Measures for describing the size distribution of sediments. Journal of Sedimentary Petrology 22(3):125-45.
- John CJ, Penland S, Ramsey KE, Fisk HN and McFarlan E Jr. 1955. Late Quaternary deltaic deposits of the Mississippi River. Geological Society of America Special Paper 62:279-302.



- Groat CG. 1989. Preliminary evaluation of sand resources offshore Louisiana. IEEE Oceans '89; 1989; New York: IEEE. v 1. p 1-6.
- Kindinger J, Flocks J, Kulp MA, Penland S, Fisk HN and McFarlan E Jr. 1955. Late Quaternary deltaic deposits of the Mississippi River. Geological Society of America Special Paper 62:279-302.
- Britsch LD. 2001. Sand resources, regional geology, and coastal processes for the restoration of the Barataria barrier shoreline. New Orleans: U.S. Army Corp of Engineers.
- Kindinger J, Flocks J, Kulp M, Penland S, Fisk HN and McFarlan E Jr. 1955. Late Quaternary deltaic deposits of the Mississippi River. Geological Society of America Special Paper 62:279-302.
- Kindinger J, Flocks J, Kulp MA, Penland S, and Britsch LD. 2002. Sand-resource investigations of the Barataria barrier shoreline. Gulf Coast Association of Geological Societies Transactions 52:537-48.
- Kindinger J, Penland S, Williams SJ, and Suter JR. 1989. Inner shelf deposits of the Louisiana-Mississippi-Alabama region, Gulf of Mexico. Gulf Coast Association of Geological Societies Transactions 39:413-20.
- King D and Galvin, CJ. 2002. Coastal Sediment Properties. In: Walton, T. editors. Coastal engineering manual, Part III, coastal sediment processes Chapter III-1, engineer manual 1110-2-1100, U.S. Army Corps of Engineers, Washington, DC.
- Kolb CR and Van Lopik JR. 1966. Depositional environments of the Mississippi River deltaic plain, southeastern Louisiana. In: Shirley ML, Ragsdale JA, editors. Deltas. Houston, TX: Texas Geological Society. p 17-62.
- Krawiec W. 1966. Recent sediments of the Louisiana inner continental shelf [dissertation]. Houston (TX): Rice University. 139 p.
- Krumbein WC, 1938. Size frequency distribution of sediments and the phi normal curve. Journal of Sedimentary Petrology 18:84-90.
- Kulp MA, Penland S, and Ramsey KE. 2001. Ship Shoal: sand resource synthesis report. New Orleans: Lee Wilson Associates. Task Order nr 61. 44 p.
- Kulp MA. 2000. Sand resources of Point Cheniere Ronquille to Grand Bayou Pass: Plaquemines Parish, Louisiana: In Sand resources and shoreline change analysis of Point Cheniere Ronquille to Grand Bayou Pass: Plaquemines Parish, Louisiana. Washington: National Marine Fisheries. Task Order 40-AA-NF-005575. 24 p.
- Kulp MA and Penland S. 2002. Sand resources offshore of the Grand Terre Islands. New Orleans: Louisiana Department of Natural Resources. 66 p.
- Kulp MA and Penland S. 2001. Offshore sand resources between Quatre Bayou and Sandy Point: Plaquemines Parish, Louisiana. New Orleans: Tetra Tech EM Inc. Task Order nr 00RMS0003. 35 p.
- Kulp MA, Howell P, Adiau S, Penland S, Kindinger JL and Williams SJ. 2002. Latest Quaternary stratigraphic framework of the Mississippi River delta region. Gulf Coast Association of Geological Societies Transactions 52:573-82.

- Kulp MA, Penland S, Flocks J, and Kindinger J. 2002. Regional geology, coastal processes, and sand resources in the vicinity of East Timbalier Island. New Orleans: Louisiana Department of Natural Resources. 103 p.
- Louisiana Geological Survey. Database compilation for nearshore sand resources: Marsh Island to Sandy Point. Baton Rouge: Louisiana Geological Survey. Report submitted to Louisiana Department of Natural Resources, contract nr 21940-86-22. 103 p.
- Ludwick JC. 1964. Sediments in northeastern Gulf of Mexico. In: Papers in marine geology: Shepard commemorative volume. New York: Macmillan. p 204-238.
- MacFarlan E. Jr and LeRoy DO. 1988. Subsurface geology of the late Tertiary and Quaternary deposits, coastal Louisiana and the adjacent continental shelf. Gulf Coast Association of Geological Societies Transactions 38:421-33.
- Maciasz E, McBride RA, McLaughlin TM, Nakashima LN, Penland S, Ramsey KE, Scott DB, Suter JR, Taylor BG and Westphal KA. 1988. Database compilation for nearshore sand resources: Marsh Island to Sandy Point. Baton Rouge: Louisiana Department of Natural Resources. 89 p.
- McBride RA, Byrnes MR, Penland S, Pope DL and Kindinger JL. 1991. Geomorphic history, geologic framework, and hard mineral resources of the Petit Bois Pass area, Mississippi-Alabama. Coastal Depositional Systems in the Gulf of Mexico: Quaternary Framework and Environmental Issues. p 116-27.
- McBride RA, Penland S, Maciasz EJ, Ramsey KE and Taylor BG. 1989. Assessment of sand resources in the Shell Island area, Plaquemines Parish, Louisiana continental shelf. Reston, VA.: U.S. Minerals Management Service. Contract nr 14-12-0001-30316. 42 p.
- McManus J. 1988. Grain size determinations and interpretation. In: Tucker M, editor. Techniques in sedimentology. Oxford: Blackwell Scientific Publications. p 63-85.
- Mossa J, Meisburger EP and Morang A. 1992 May. Geomorphic variability in the coastal zone. Washington: US Army Corps of Engineers. Report nr CERC-92-4. 104 p.
- Motti J and Kulp MA. 2003. Descriptive logs and textural analysis data for BSS2000 vibracores: Ship Shoal Area. New Orleans: Louisiana Department of Natural Resources. 15 p.
- Nummedal D, Manty R and Penland S. 1980. Bar morphology along the margin of Mississippi Sound. Gulf Coast Association of Geological Societies Transactions 30:465-66.
- Ocean Surveys, Inc. 2002. Hydrologic, geophysical and geotechnical survey program Timbalier Island dune/marsh restoration project. Old Saybrook, CT: OSI. OSI Project nr 01ES090. 25 p.
- Penland S and Suter JR. 1983. Transgressive coastal facies preserved in barrier island arc retreat paths in the Mississippi River delta plain. Gulf Coast Association of Geological Societies Transactions 33:367-82.
- Penland S and Suter JR. 1988. Nearshore sand resources in the eastern Isles Dernieres Barrier Island Arc. Baton Rouge: Louisiana Geological Survey. Open File Series nr 88-08. 14 p.
- Penland S and Suter JR. 1989. The geomorphology of the Mississippi River chenier plain. Marine Geology 90:231-58.

- Penland, S., Suter, J.R., and Moslow, T.F., 1984. Act 41 nearshore sand inventory for the Cheniere Ronquille, Isles Dernieres, and Holly-Peveto Beach pilot protection projects. Louisiana Department of Natural Resources, 3 maps.
- Penland S, Suter JR and Moslow TF. 1986a. The Holocene geology of the Ship Shoal region, northern Gulf of Mexico. Baton Rouge: Louisiana Geological Survey. Coastal Geology Bulletin nr1. 114 p.
- Penland S, Suter JR and Moslow TF. 1986b. Inner-shelf shoal sedimentary facies and sequences: Ship Shoal, northern Gulf of Mexico. In: Moslow TF, Rhodes EG, editors. Modern and ancient shelf clastics: a core workshop, Society of Economic Paleontologists and Mineralogists Core Workshop 9. Tulsa, OK: SEPM. p 73-123.
- Penland S, Boyd R and Suter JR. 1988a. Transgressive depositional systems of the Mississippi delta plain: a model for barrier shoreline and shelf sand development. *Journal of Sedimentary Petrology* 58(6):932-49.
- Penland S, Suter JR and McBride RA. 1988b. Reconnaissance investigation of shoreface and inner shelf sand resources in Terrebonne Parish: Point Au Fer to Timbalier Island. Baton Rouge: Louisiana Geological Survey. Open File Series nr 88-06. 61 p.
- Penland S, Suter JR, McBride RA, Williams SJ, Kindinger JL and Boyd R. 1989. Holocene sand shoals offshore of the Mississippi River delta plain. *Gulf Coast Association of Geological Societies Transactions* 39:471-80.
- Penland S, Mossa J, McBride RA, Ramsey KE, Suter JR, Groat CG and Williams SJ. 1990a. Offshore and onshore sand resource delineation and usage for coastal erosion control in Louisiana: Isles Dernieres and Plaquemines barrier systems. *Proceedings of Second Symposium on Studies Related to Continental Margins*. Austin, TX: University of Texas - Bureau of Economic Geology. p 74-86.
- Penland S, Suter JR, Ramsey K, McBride RA, Williams SJ and Groat CG. 1990. Offshore sand resources for coastal erosion control in Louisiana. *Gulf Coast Association of Geological Societies Transactions* 40:721-731.
- Penland S, Beall A, Connor P, Kulp M, Westphal K and Zganjar C. 2000. Sand resources and shoreline change analysis of Point Cheniere Ronquille to Grand Bayou Pass: Plaquemines Parish, Louisiana. Washington: National Marine Fisheries Service. Coastal Wetland Planning, Protection, and Restoration Act. 37 p.
- Penland S, Pope DL, McBride RA, Suter JR and Groat CG. 2000. Assessment of sand resources in the Trinity Shoal area, Louisiana continental shelf. Baton Rouge: Louisiana Geological Survey. Cooperative Agreement submitted to US Minerals Management Service nr 14-12-0001-30387. 46 p.
- Pope DL, Penland S, Suter JR and McBride RA. 1991. Holocene geologic framework of Trinity Shoal Region, Louisiana. *Coastal depositional systems in the Gulf of Mexico: Quaternary framework and Environmental Issues*. GCSSEPM Foundation. p 191-201.
- Ramsey K. 1999 Aug. Sand resource inventory offshore Grand Terre, Louisiana. Baton Rouge: National Marine Fisheries Service, Coastal Restoration Division. 10 p.

- Ritchie W and Penland S. 1990. Aeolian sand bodies of the south Louisiana coasts. In: Coastal Dunes: Forms and Processes. New York: John Wiley and Sons, Ltd. p 105-27.
- Roberts HH. 1997. Dynamic change of the Holocene Mississippi River delta plain: the delta cycle. *Journal of Coastal Research* 13(3):605-27.
- Saucier RT. 1994. Geomorphology and Quaternary geologic history of the lower Mississippi valley. Vicksburg, MI: United States Army Engineer Waterways Experiment Station. 364 p.
- Scruton PC. 1960. Delta building and the deltaic sequence. In: Shepard FP, Phleger FB, Van Andel TH, editors. Recent sediments, northwest Gulf of Mexico. Tulsa, OK: American Association of Petroleum Geologists. p 82-102.
- Stone GW, Roberts HH, Wang P and Zhang X. 2001 Feb. Sand resources investigation for New Cut dune/marsh restoration project TE-37. Baton Rouge: Louisiana Department of Natural Resources, Coastal Restoration Division.
- Suter JR, Berryhill HL and Penland S. 1985. Environments of sand deposition on the southwest Louisiana continental shelf. *Gulf Coast Association of Geological Societies Transactions* 35:495-504.
- Suter JR and Penland S. 1985. Nearshore sand resources in the Holly-Peveto Beach area. Baton Rouge: Louisiana Department of Natural Resources. 3 maps.
- Suter JR, Berryhill H and Penland S. 1987. Late Quaternary sea-level fluctuations and depositional sequences, southwest Louisiana. In: Nummedal D, Pilkey OH, Howard JD, editors. Sea-level fluctuation and coastal evolution. Tulsa, OK: Society of Economic Paleontologists and Mineralogists nr 41, p. 199-219.
- Suter JR and Penland S. 1987. Louisiana nearshore sand resource inventory. In: Penland S, Suter JR, editors. Barrier shoreline geology, erosion, and protection in Louisiana field trip guide. New York: American Society of Civil Engineers. p 8-1 - 8-14.
- Suter JR and Penland S. 1987. A preliminary assessment of the sand and aggregate resources of three areas of the Louisiana inner continental shelf: Timbalier Islands, Chandeleur Islands, and Trinity Shoal. Baton Rouge: Louisiana Geological Survey. Open-File Series nr 87-04. 58 p.
- Suter JR, Penland S, Ramsey KE and McBride RA. 1987. Mapping nearshore sand resources in coastal Louisiana: Raccoon Point to Belle Pass, LA. Baton Rouge: Louisiana Department of Natural Resources. 30 p.
- Suter JR, Mossa J and Penland S. 1988. Preliminary assessments of the occurrence and effects of utilization of sand and aggregate resources of the Louisiana inner shelf. First Symposium in Studies Related to Continental Margins. Austin, TX: Texas Bureau of Economic Geology. p 80-90.
- Suter JR, Mossa J and Penland S. 1989. Preliminary assessments of the occurrence and effects of utilization of sand and aggregate resources of the Louisiana inner shelf. *Marine Geology* 90:31-37.

- Suter JR, Penland S and Ramsey KE. 1991. Nearshore sand resources of the Mississippi River Delta Plain: Marsh Island to Sandy Point. Baton Rouge: Louisiana Geological Survey. Coastal Geology Technical Report nr 8. 130 p.
- United States Army Corps of Engineers. 1977. Chapter 5. In: U.S. Army Coastal Engineering Center, editor. Shore protection manual Volume II. Fort Belvoir, VA: U.S.A.C.E. p 1-59.
- Wells JT and Kemp GP. 1981. Atchafalaya mud stream and recent mudflat progradation: Louisiana chenier plain. Gulf Coast Association of Geological Societies Transactions 31:409-16.
- Wentworth CK. 1922. A scale of grade and class terms for clastic sediments. Journal of Geology 30:377-92.
- Williams SJ, Penland S and Circe' RC. 1989. Distribution and textural character of surficial sediments, Isles Dernieres to Ship Shoal region, Louisiana. Gulf Coast Association of Geological Societies Transactions 39: 571-76.
- Williams SJ, Jenkins C, Currence J, Penland S, Reid J, Flocks J, Kindinger J, Poppe L, Kulp M, Manheim F, Hampton M, Polloni C and Rowland C. 2002. New digital geological maps of U.S. continental margins: insights to seafloor sedimentary character, aggregate resources and processes. Proceedings of the International Conference on Coastal Sediments 2003. CD-ROM published by World Scientific Publishing Corp. and East Meets West Productions, Corpus Christi, Texas, USA. ISBN 981-238-422-7.
- Wright LD. 1977. Sediment transport and deposition at river mouths: a synthesis. Geological Society of America Bulletin 88:857-68.
- Wright LD and Coleman JM. 1973. Variations in morphology of major river deltas as functions of ocean wave and river discharge regimes. American Association of Petroleum Geologists Bulletin 57:370-98.
-

## Chapter 8

- Campbell T and Jenkins M. 2002. Design considerations for hot spot erosion areas on beach nourishment projects. Cardiff, Wales.
- Coastal Environments. 1982. The barrier islands of Terrebonne Parish: restoration potential. Baton Rouge, LA. 50 pp.
- Coastal Planning and Engineering, Inc 2000. Holly Beach Breakwater Enhancement and Sand Management Plan. Boca Raton, FL: Coastal Planning & Engineering. Inc.
- Dean RG. 1991. Independent analysis of shoreline changes in the vicinity of Blind Pass, Florida. Consulting report prepared by the city of Sanibel, Florida. 20 p.
- Fitzgerald DM, Argow BA and Buynevich IV. 2003. Rising sea level and its effect on backbarrier marshes and tidal flats, tidal inlets and barrier shorelines. Proceedings of the Coastal Sediments 2003. Clearwater, FL.
- Grandy et al. 2003. Personal communication. Baton Rouge, LA: Louisiana Department of Natural Resources.
- Jones RS. 1985. Barrier island reconstruction in Louisiana. Houma, Louisiana. 7 p.
- Komar PD. 1997. Beach processes and sedimentation. Prentice Hall: New Jersey. 546 p.
- LCA Science Workshop. April 23-24, 2003. Workshop sponsored by the USACE-MVN and State of Louisiana Department of Natural Resources.
- Lee D and Thibodeaux H. 2003. Personal communication. Louisiana Department of Natural Resources.
- Louisiana Department of Natural Resources. 1993. Isles Dernieres restoration plan of the State of Louisiana. State of Louisiana Department of Natural Resources.
- Manual SP. 1984. U.S. Army Engineer waterways experiment station. Washington, DC: U.S. Government Printing Office.
- National Research Council 1995. Beach nourishment and protection. Committee on beach nourishment and protection, commission on engineering and technical systems, National Research Council, National Academy Press: Washington D.C. 374 pp.
- Penland S and Ramsey KE. 1990. Relative sea-level rise in Louisiana and the Gulf of Mexico, 1908-1988. Journal of Coastal Research 6(2):323-342.
- Penland S, Connor PF, Cretini F and Westphal KA. 2003. CWPPRA adaptative management: assessment of five barrier island restoration projects in Louisiana. Proceedings of Coastal Sediments 2003; Clearwater, FL.
- Picciola and Associates. 2000. East Timbalier sediments restoration projects TE-25 and TE 30. as built construction phase.
- Silvester R and Hsu JRC. 1997. Coastal stabilization: innovative concepts. Englewood Cliffs, New Jersey: Prentice-Hall. 578 p.

- T. Baker Smith and Son. 1997. Barrier Island Feasibility Study, Phase 1: Step K Report. Identification and Assessment of Management and Engineering Techniques. Report to the Louisiana Department of Natural Resources. DNR contract # 25081-95-02.
- U.S. Army Corps of Engineers 1975. Composite environmental statement for operation and maintenance dredging of four located south of the Gulf Intracoastal Waterway in Terrebonne Parish, Louisiana. New Orleans District.
- U. S. Army Corps of Engineers 2001. Coastal engineering manual. Engineer Manual 1110-2-1100. Washington, D.C.: U.S. Army Corps of Engineers.
- U. S. Army Corps of Engineers 2002. Coastal engineering manual. Washington, D.C.: U.S. Army Corps of Engineers.
- Van Beek JL and Meyer-Arendt KJ. 1982. Louisiana's eroding coastline: recommendations for protection. Baton Rouge, LA: Coastal Environments Inc. 50 p.
- Walton TL and Dean RG. 1976. Uses of outer bars of inlets as sources of beach nourishment material. *Shore and Beach* 44(2):13-19.
- Williams J, Penland S and Sallenger AH. 1992. Atlas of shoreline changes in Louisiana from 1853 to 1995. U.S. Geological Survey in Cooperation with Louisiana Geological Survey. Miscellaneous Investigations Series I-2150-A.
-

## Chapter 9

- Bruun P. 1988. The Bruun Rule of erosion by sea level rise: a discussion of large-scale two- and three-dimensional usages. *Journal of Coastal Research* 4(4): 627-648.
- Campbell T and Benedet L. 2003. Development of a dean-esque conceptual mode for the retreat of the Louisiana Barrier Islands and applications to beach nourishment in the region.
- Carter RWG. 1988. *Coastal environments*. London, England: Academic Press. 617 p.
- Coastal Planning & Engineering Inc. 2003. Chaland headland and Pelican island barrier shoreline restoration: 30% design report. Baton Rouge, LA.
- Combe AJ and Soileau CW. 1987. Behavior of man-made beach and dune. Grand Isle, Louisiana. pp 1232-1243.
- Dingler JR and Reiss TE. 1991. Processes controlling the retreat of the Isle Dernieres, a Louisiana barrier-island chain. pp 1111-1121.
- Kirby R. 2002. Distinguishing accretion from erosion-dominated muddy coasts. In: Healy T, Wang Y, Healy JA, editors. *muddy coasts of the world: processes, deposits and function*: Elsevier Science. pp 61-81.
- Komar PD. 1997. *Beach processes and sedimentation*: Prentice Hall: New Jersey. 546 p.
- LCA Science Workshop. April 23-24, 2003. Workshop sponsored by the USACE-MVN and State of Louisiana Department of Natural Resources.
- List JH, Sallenger AH, Jr., Hansen ME and Jaffe BE. 1997. Accelerated relative sea level rise and rapid coastal erosion: testing causal relationships for the Louisiana barrier islands. *Marine Geology* 140:347-365.
- Metha A. 2002. Mudshore dynamic and controls. In: Healy T, Wang Y, Healy J-A, editors. *muddy coasts of the world: processes, deposits and function*: Elsevier Science. p 19-57.
- Penland S, Suter JR and Williams SJ. 1984. Low-profile barrier island overwash and breaching in the Gulf of Mexico. *Coastal Engineering* 3:2339-2345.
- Penland S and Ramsey KE. 1990. Relative sea-level rise in Louisiana and the Gulf of Mexico: 1908-1988. *Journal of Coastal Research* 6(2): 323-342.
- Penland S and Williams SJ. Editors. 2003. *Restoring Louisiana's gulf coastline*. 11 pp.
- Penland S, Suter JR and McBride RA. 1988. Reconnaissance investigation of shoreface and inner shelf sand resources in Terrebonne Parish: Point Au Fer to Timbalier Island. Louisiana Geological Survey. 62 p.
- Picciola and Associates. 2000. East Timbalier sediments restoration projects TE-25 and TE 30. as built construction phase.
- Short AD. 1999. *Handbook of beach and shoreface morphodynamics* - West Sussex, England: Wiley. 379 pp.
- T. Baker Smith & Son I. 1997. Barrier island feasibility study: Phase 1- Step K report: identification and assessment of management and engineering techniques.



- Van Beek JL and Meyer-Arendt KJ. 1982. Louisiana's eroding coastline: recommendations for protection. Baton Rouge, LA. 49 p.
- Williams J, Penland S and Sallenger AH. 1992. Atlas of shoreline changes in Louisiana from 1853 to 1995. U.S. Geological Survey in Cooperation with Louisiana Geological Survey. Miscellaneous Investigations Series I-2150-A.
- Winer H. 1993. Barrier island restoration in Louisiana. Belle Chasse, LA. 258-273 pp.
-

## Chapter 10

- Adams R, Banas R, Baumann R, Blackmon J and McIntire W. 1978. Shoreline erosion in coastal Louisiana: Inventory and assessment. Baton Rouge, Louisiana: Louisiana Department of Natural Resources. 103 p.
- Armbruster CK. 1999. Raccoon Island breakwaters TE-29. Louisiana Department of Natural Resources. 32 p.
- Byrnes MR, McBride RA, Tao Q and Duvic L. 1995. Historical shoreline dynamics along the Chenier Plain of southwestern Louisiana. Gulf Coast Association of Geological Societies 45: 113-122.
- Coastal Planning and Engineering, Inc.. 2000. Holly Beach Breakwater Enhancement and sand management plan. Boca Raton, FL.
- Coastal Planning & Engineering Inc. 2003. Chaland headland and Pelican island barrier shoreline restoration: 30% design report. Baton Rouge, LA.
- Combe J. 2003. Personal communication. U.S. Army Corps of Engineers, New Orleans District.
- Courtemanche R, Hester M, Mendelssohn I. 1999. Recovery of a Louisiana barrier island marsh plant community following extensive hurricane-induced overwash. Journal of Coastal Research 15:872-883.
- Dean RG. 2002. Beach nourishment: theory and practice. River Edge, NJ: World Scientific. 397 pp.
- FitzGerald DM, Argow BA, Buynevich IV. 2003. Rising sea level and its effect on backbarrier marshes and tidal flats, tidal inlets and barrier shorelines. Clearwater, FL.
- Hester M and Mendelssohn IA. 1992. Barrier Island Vegetation Dynamics: Stabilization and Maintenance Projects on Timbalier Island. Baton Rouge, Louisiana.: Wetland Biogeochemistry Institute, Center for Coastal, Energy, and Environmental Resources, LSU.
- Hester M, McKee K, Burdick M, Koch M, Flynn K, Patterson S and Mendelssohn I. 1994. Clonal integration in *Spartina patens* across a nitrogen and salinity gradient. Canadian Journal of Botany 72:767-770.
- Huh O, Walker N and Moeller C. 2001. Sedimentation along the eastern Cheniere Plain Coast; down drift impact of a delta complex shift. Journal of Coastal Research 17(7):72-81.
- Kemp G. 1986. Mud deposition at the shoreface: wave and sediment dynamics on the Chenier Plain of Louisiana [Dissertation]. Baton Rouge, Louisiana: Louisiana State University. 146 p.
- Khalil S and Lee D. Personal communication. Thibodeaux, LA. Louisiana Department of Natural Resources.
- Kindinger J, Flocks J, Kulp M, Penland S and Britsh LD. 2001. Sand resources, regional geology, and coastal processes for the restoration of the Barataria barrier shoreline.
- List JH, Jaffe BE, Sallenger AH, Jr., Williams SJ, McBride RA and Penland S. 1994.

- Louisiana barrier island erosion study: Atlas of seafloor changes from 1878 to 1989. US Geological Survey, 81 p.
- List JH, Sallenger AH, Jr., Hansen ME and Jaffe BE. 1997. Accelerated relative sea level rise and rapid coastal erosion: testing a causal relationship for the Louisiana barrier islands. *Marine Geology* 140:347-365.
- Louisiana Department of Natural Resources. 1992. Point Au Fer Canal Plugs (TE-22).
- Louisiana Department of Natural Resources. 1997. Cheniere Au Tigre Sediment Trapping Demonstration (TV-16).
- Louisiana Department of Natural Resources. 1998a. Project No. TE-20.
- Louisiana Department of Natural Resources. 1998b. Project No. TE-22 Point Au Fer Island Hydrologic Restoration.
- Louisiana Department of Natural Resources. 1998c. Project No. TE-23 West Belle Pass Headland Restoration.
- Louisiana Department of Natural Resources. 1998d. Project No. TE-24 Isles Dernieres Restoration Phase 1 (Trinity Island).
- Louisiana Department of Natural Resources. 1998e. Project No. TE-25 East Timbalier Sediment Restoration.
- Louisiana Department of Natural Resources. 1998f. Project No. TE-27 Whiskey Island Restoration.
- Louisiana Department of Natural Resources. 1998g. Project No. TE-29 Raccoon Island Breakwaters Demonstration Project.
- Louisiana Department of Natural Resources. 1998h. Project No. TE-30 East Timbalier Sediment Restoration (Phase 2).
- Louisiana Department of Natural Resources. 2000. Project No. T/V-14 Marsh Island Hydrologic Restoration.
- Louisiana Department of Natural Resources. 2001a. Project No. BA-28 Vegetative Plantings of the Dredge Material Disposal Site on Grand Terre Island.
- Louisiana Department of Natural Resources. 2001b. Project No. TE-37 New cut dune/marsh restoration.
- Louisiana Department of Natural Resources. 2002a. Raccoon Island shoreline protection/marsh creation (TE-48).
- Louisiana Department of Natural Resources. 2002b. Ship Shoal: Whiskey west flank restoration (TE-47).
- McBride RA and Byrnes MR. 1995. Shoreline response and human-induced processes along the Chenier plain of Southwestern Louisiana.
- Morgan J and Larrimore P. 1957. Changes in the Louisiana Shoreline. *Transactions-Gulf Coast Association of Geological Societies* 7:303-310.

- Penland S. 2003. Personal communication. Pontchartrain Institute for Environmental Sciences. New Orleans, LA.
- Penland S and Suter JR. 1989. The geomorphology of the Mississippi River Chenier plain. *Marine Geology* 90:231-258.
- Penland S and Ramsey KE. 1991. Relative sea level rise in Louisiana and the Gulf of Mexico:1908-1988. *Journal of Coastal Research* 6(2):323-342.
- Penland S, Suter JR, and Boyd R. 1985. Barrier island arcs along abandoned Mississippi River deltas. *Marine Geology* 63: 197-233.
- Penland S, Boyd R and McBride RA. 1987. Delta plain development and sea level history in the Terrebonne coastal region Louisiana. pp. 1689-1705.
- Penland S, Boyd R and Suter JR. 1988. Transgressive depositional systems of the Mississippi River delta plain. *Journal of Sedimentary Petrology* 58(6):932-949.
- Penland S, McBride RA, Suter RJ, Boyd R and Williams SJ. 1991. Holocene development of shelf-phase Mississippi River delta plains. pp. 182-185.
- Penland S, Connor PF, Cretini F, and Westphal KA. 2003a. CWPPRA adaptive management: Assessment of five-barrier island restoration projects in Louisiana. p.15.
- Penland S, Connor PF, Cretini F and Westphal KA. 2003b. CWPPRA Adaptive Management: Assessment of five barrier island restoration projects in Louisiana. Electronic proceedings for Coastal Sediments 03.
- Penland S and Williams SJ. 2003. Restoring Louisiana's Gulf Coastline. In: Penland S, Campbell T, editors. Louisiana coastal area: science based restoration for the Louisiana coastline. 11 p. in press.
- Picciola and Associates. 2000. East Timbalier sediments restoration projects TE-25 and TE 30.As built construction phase.
- Ritchie W, Westphal KA, McBride RA and Penland S. 1989. Coastal sand dunes of Louisiana-the Isles Dernieres. Louisiana Geological Survey. Coastal Geology Technical Report. 60 p.
- Ritchie W, Westphal KA, McBride RA and Penland S. 1990. Coastal sand dunes of Louisiana. Louisiana Geological Survey. 60 p.
- Ritchie W, Westphal KA, McBride RA and Penland S. 1992. Coastal sand dunes of Louisiana-the Chandeleur Islands barrier system. Louisiana Geological Survey. Coastal Geology Technical Report nr 7. 174 p.
- Ritchie W, Westphal KA, McBride RA and Penland S. 1995. Coastal sand dune of Louisiana-the Bayou Lafourche barrier shoreline. Louisiana Geological Survey. Coastal Geology Technical Report nr 9. 200 p.
- Roberts H, Huh O, Hsu S, Rouse L and Rickman D. 1989. Winter storm impacts on the chenier plain coast of southwestern Louisiana. *Transactions Gulf Coast Association of Geological Societies* 39:512-522.

- Sheremet A and Stone G. 2003. Observations of nearshore wave dissipation over muddy sea beds. *Journal of Geophysical Research* (in press) Stone G and McBride R. 1998. Louisiana barrier islands and their importance in wetland protection: forecasting shoreline change and subsequent response of wave climate. *Journal of Coastal Research* 14:900-915.
- Suter JR, Penland S, Ramsey KE. 1991. Nearshore sand resources of the Mississippi river delta plain: marsh island to sandy point. Baton Rouge, Louisiana. Louisiana Geological Survey. Coastal Geology Technical Report No. 8.
- USACE. 1980. Grande Isle and vicinity: Phase II general design memorandum. New Orleans District, 29 p.
- USACE. 2003a. Atchafalaya river - bar channel survey data and charts. Prepared by the US Army Corps of Engineers.
- USACE. 2003b. Barataria bay waterway survey data and charts. Prepared by the US Army Corps of Engineers.
- USACE. 2003c. Calcasieu river - lower channel survey data and charts. Prepared by the US Army Corps of Engineers.
- USACE. 2003d. Freshwater bayou, La survey data and charts. Prepared by the US Army Corps of Engineers.
- USACE. 2003e. Houma navigation canal, La survey data and charts. Prepared by the US Army Corps of Engineers.
- USACE. 2003f. Mermentau river survey data and charts. Prepared by the US Army Corps of Engineers.
- USACE. 2003g. Mississippi river - southwest & south pass survey data and charts.
- USACE. 2003h. The MRGO report Mississippi river gulf outlet. Prepared by the US Army Corps of Engineers.
- USACE. 2003i. Tiger pass - main survey data and charts. Prepared by the US Army Corps of Engineers.
- Wells J. 1983. Dynamics of coastal fluid muds in low-, moderate-, and high-tide range environments. *Canadian Journal of Fisheries and Aquatic Science* 40:130-132.
- Williams J, Penland S and Sallenger AH. 1992. Atlas of Shoreline Changes in Louisiana from 1853 to 199. U.S. Geological Survey in Cooperation with Louisiana Geological Survey.